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OM protein - protein search, using sw model

Run on: February 25, 2004, 01:49:04 ; Search time 23 Seconds  
(without alignments)  
298.533 Million cell updates/sec

Title: US-09-638-693-36  
Perfect score: 133  
Sequence: 1 QNEICLTHPTIKYIMACMSA.....VIEPIVTTNWQKLEAFWHKH 133

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/2/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/prodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/prodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/prodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/prodata/2/iaa/PCUTS\_COMB.pep.\*  
6: /cgn2\_6/prodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	48	36.1	128	1	US-08-244-116B-17
2	41	30.8	829	4	Sequence 5, Appli
3	41	30.8	1099	4	Sequence 4, Appli
4	20	15.0	20	4	Sequence 104, App
5	20	15.0	22	2	Sequence 107, App
6	20	15.0	22	3	Sequence 107, App
7	20	15.0	22	3	Sequence 107, App
8	20	15.0	22	4	Sequence 104, App
9	19	14.3	19	1	Sequence 2, Appli
10	19	14.3	247	1	Sequence 44, Appl
11	19	14.3	247	2	Sequence 44, Appl
12	19	14.3	247	2	Sequence 44, Appl
13	19	14.3	247	3	Sequence 44, Appl
14	19	14.3	631	1	Sequence 1, Appli
15	19	14.3	631	2	Sequence 1, Appli
16	19	14.3	632	3	Sequence 23, Appl
17	19	14.3	632	4	Sequence 23, Appl
18	19	14.3	646	3	Sequence 60, Appl
19	19	14.3	646	3	Sequence 63, Appl
20	19	14.3	646	3	Sequence 66, Appl
21	19	14.3	646	3	Sequence 69, Appl
22	19	14.3	646	3	Sequence 72, Appl
23	19	14.3	646	4	Sequence 60, Appl
24	19	14.3	646	4	Sequence 63, Appl
25	19	14.3	646	4	Sequence 66, Appl
26	19	14.3	646	4	Sequence 69, Appl
27	19	14.3	646	4	Sequence 72, Appl

28 19 14.3 665 4 US-09-543-376B-1 Sequence 1, Appli  
29 19 14.3 665 4 US-09-543-376B-2 Sequence 2, Appli  
30 19 14.3 665 4 US-09-543-376B-3 Sequence 3, Appli  
31 19 14.3 666 3 US-09-198-723A-11 Sequence 11, Appl  
32 19 14.3 666 3 US-09-198-723A-12 Sequence 12, Appl  
33 19 14.3 666 3 US-09-198-723A-13 Sequence 13, Appl  
34 19 14.3 666 3 US-09-198-723A-14 Sequence 14, Appl  
35 19 14.3 666 3 US-09-198-723A-15 Sequence 15, Appl  
36 19 14.3 666 3 US-09-198-723A-16 Sequence 16, Appl  
37 19 14.3 666 3 US-09-198-723A-17 Sequence 17, Appl  
38 19 14.3 666 3 US-09-198-723A-18 Sequence 18, Appl  
39 19 14.3 666 4 US-09-684-881-11 Sequence 11, Appl  
40 19 14.3 666 4 US-09-684-881-12 Sequence 12, Appl  
41 19 14.3 666 4 US-09-684-881-13 Sequence 13, Appl  
42 19 14.3 666 4 US-09-684-881-14 Sequence 14, Appl  
43 19 14.3 666 4 US-09-684-881-15 Sequence 15, Appl  
44 19 14.3 666 4 US-09-684-881-16 Sequence 16, Appl  
45 19 14.3 666 4 US-09-684-881-17 Sequence 17, Appl

## ALIGNMENTS

RESULT 1  
US-08-244-116B-17  
; Sequence 17, Application US/08244116B  
; Patent No. 5763159  
; GENERAL INFORMATION:  
; APPLICANT: Simmonds, Peter  
; APPLICANT: Chan, Shiu-Man  
; APPLICANT: Yap, Peng L.  
; TITLE OF INVENTION: Hepatitis-C Virus Testing  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
; STREET: 1211 East Morehead Street  
; CITY: Charlotte  
; STATE: No. 5763159th Carolina  
; COUNTRY: United States  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0. Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244,116B  
; FILING DATE: 15-JUL-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA: PCT/GB92/02143  
; APPLICATION NUMBER: 20-NOV-1992  
; FILING DATE: 20-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 1749-125  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 704-377-1561  
; TELEFAX: 704-334-2014  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 128 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: Yes  
; FRAGMENT TYPE: internal  
; ORIGINAL SOURCE:  
; ORGANISM: Hepatitis-C virus  
US-08-244-116B-17

Query Match 36.1%; Score 48; DB 1; Length 128;



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; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-146-028-107
Query Match      15.0%; Score 20; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.1e-12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGKPAIVDPKEVLYQQYDE 76
Db 2 LGGKPAIVDPKEVLYQQYDE 21

RESULT 6
US-08-723-425A-107
; Sequence 107, Application US/08723425A
; Patent No. 6165730
; GENERAL INFORMATION:
; APPLICANT: DELEYS, ROBERT
; TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF
; TITLE OF INVENTION: PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT
; TITLE OF INVENTION: EPITOPES AND THEIR USE IN A PROCESS FOR DETERMINATION OF
; TITLE OF INVENTION: ANTIBODIES OR BIOTINYLATED PEPTIDES CORRESPONDING ...
; NUMBER OF SEQUENCES: 453
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE, P.C.
; STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR
; CITY: Arlington
; STATE: VA
; COUNTRY: USA
; ZIP: 22201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/723,425A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: SADOFF, B.J.
; REGISTRATION NUMBER: 36,663
; REFERENCE/DOCKET NUMBER: 1487-13
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-816-4000
; TELEFAX: 703-816-4100
; INFORMATION FOR SEQ ID NO: 107:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-723-425A-107
Query Match      15.0%; Score 20; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.1e-12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGKPAIVDPKEVLYQQYDE 76
Db 2 LGGKPAIVDPKEVLYQQYDE 21

RESULT 7
US-09-112-206-107
; Sequence 107, Application US/09112206
; Patent No. 6210903
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES
; TITLE OF INVENTION: CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR
; TITLE OF INVENTION: IN A PROCESS FOR DETERMINATION OF ANTIBODIES OR BIOTINYLATED
; TITLE OF INVENTION: PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT EPITOPES,
; NUMBER OF SEQUENCES: 453
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/112,206
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/146,028
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 107:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 22 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-112-206-107
Query Match      15.0%; Score 20; DB 3; Length 22;
Best Local Similarity 100.0%; Pred. No. 1.1e-12;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGKPAIVDPKEVLYQQYDE 76
Db 2 LGGKPAIVDPKEVLYQQYDE 21

RESULT 8
US-09-576-824A-104
; Sequence 104, Application US/09576824A
; Patent No. 6667387
; GENERAL INFORMATION:
; APPLICANT: De Leys, Robert
; TITLE OF INVENTION: PROCESS FOR THE DETERMINATION OF PEPTIDES CORRESPONDING
; TITLE OF INVENTION: TO IMMUNOLOGICALLY IMPORTANT EPITOPES AND THEIR USE IN
; TITLE OF INVENTION: A PROCESS FOR DETERMINATION OF ANTIBODIES OF
; TITLE OF INVENTION: BIOTINYLATED PEPTIDES CORRESPONDING TO IMMUNOLOGICALLY IMPORTANT
; TITLE OF INVENTION: EPITOPES, A PROCESS FOR PREPARING THEM AND COMPOSITIONS
; TITLE OF INVENTION: CONTAINING THEM
; FILE REFERENCE: 2752-11
; CURRENT APPLICATION NUMBER: US/09/576,824A
; CURRENT FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 08/723,425
; PRIOR FILING DATE: 1996-09-30
; PRIOR APPLICATION NUMBER: 09/146,028
; PRIOR FILING DATE: 1993-11-22
; PRIOR APPLICATION NUMBER: PCT/EP93/00517
; PRIOR FILING DATE: 1993-03-08
; PRIOR APPLICATION NUMBER: EP 92400598.6
; PRIOR FILING DATE: 1992-03-06
; NUMBER OF SEQ ID NOS: 600
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 104
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)
; OTHER INFORMATION: modified site
; NAME/KEY: VARIANT
; LOCATION: (22)
; OTHER INFORMATION: modified site
US-09-576-824A-104
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Query Match 15.0%; Score 20; DB 4; Length 22;  
Best Local Similarity 100.0%; Pred. No. 1.1e-12;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 57 LGGKPAIVDPKEVLYQQYDE 76  
|||||  
DB 2 LGGKPAIVDPKEVLYQQYDE 21

## RESULT 9

US-08-244-116B-2  
; Sequence 2, Application US/08244116B  
; Patent No. 5763159  
; GENERAL INFORMATION:  
; APPLICANT: Simmonds, Peter  
; APPLICANT: Chan, Shiu-Wan  
; APPLICANT: Yap, Peng L.  
; TITLE OF INVENTION: Hepatitis-C Virus Testing  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
; STREET: 1211 East Morehead Street  
; CITY: Charlotte  
; STATE: No. 5763159th Carolina  
; COUNTRY: United States  
; ZIP: 28234

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0. Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244,116B  
; FILING DATE: 15-JUL-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/GB92/02143  
; FILING DATE: 20-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 1749-125  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 704-377-1561  
; TELEFAX: 704-334-2014  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 19 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
; FRAGMENT TYPE: internal  
; ORIGINAL SOURCE:  
; ORGANISM: Hepatitis-C virus  
US-08-244-116B-2

Query Match 14.3%; Score 19; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 8.8e-12;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 79 ECSQAAPYIEQAQVIAHQF 97  
|||||  
DB 1 ECSQAAPYIEQAQVIAHQF 19

## RESULT 10

US-08-324-977-44  
; Sequence 44, Application US/08324977  
; Patent No. 5747339  
; GENERAL INFORMATION:  
; APPLICANT: OKAYAMA, Hiroto

; APPLICANT: FUKU, Isao  
; APPLICANT: MORI, Chisato  
; APPLICANT: TAKAMIZAWA, Akahisa  
; APPLICANT: YOSHIDA, Iwao  
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE  
; NUMBER OF SEQUENCES: 50  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &  
; STREET: 1725 K St. N.W. Suite 1000  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20006

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
; SOFTWARE: ASCII

; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/324,977  
; FILING DATE: 18-OCT-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-167466  
; FILING DATE: 25-JUN-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-230921  
; FILING DATE: 31-AUG-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-305605  
; FILING DATE: 09-NOV-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/099,706  
; FILING DATE: 30-JUL-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/769,996  
; FILING DATE: 02-OCT-1991  
; APPLICATION NUMBER: US 07/635,451  
; FILING DATE: 28-DEC-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Stevens-Smith, Theresa M.  
; REGISTRATION NUMBER: 36,281  
; REFERENCE/DOCKET NUMBER: 900703D  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 659-2930  
; TELEFAX: (202) 887-0357  
; TELEX: 440142  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 247 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-324-977-44

Query Match 14.3%; Score 19; DB 1; Length 247;  
Best Local Similarity 100.0%; Pred. No. 9.5e-11;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPIITKYIMACMSADLEV 24  
|||||  
DB 22 LTHPIITKYIMACMSADLEV 40

## RESULT 11

US-08-384-616-44  
; Sequence 44, Application US/08384616  
; Patent No. 5847101  
; GENERAL INFORMATION:  
; APPLICANT: OKAYAMA, Hiroto  
; APPLICANT: FUKU, Isao

APPLICANT: MORI, Chisato  
APPLICANT: TAKAMIZAWA, Akahisa  
APPLICANT: YOSHIDA, Iwao  
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Armstrong, Westernman, Hattori, McLeleland &  
STREET: 1725 K St. N.W. Suite 1000  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20006  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US 08/384,616  
FILING DATE: 31-AUG-1990  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/769,996  
FILING DATE: 02-OCT-1991  
APPLICATION NUMBER: JP 2-167466  
FILING DATE: 25-JUN-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-230921  
FILING DATE: 31-AUG-1990  
APPLICATION NUMBER: JP 2-305605  
FILING DATE: 09-NOV-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/635,451  
FILING DATE: 28-DEC-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Stevens-Smith, Theresa M.  
REGISTRATION NUMBER: 36,281  
REFERENCE/DOCKET NUMBER: 900703B  
TELEPHONE: (202) 659-2930  
TELEFAX: (202) 887-0357  
TELEX: 440142  
INFORMATION FOR SEQ ID NO: 44:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 247 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-384-616-44

Query Match 14.3%; Score 19; DB 2; Length 247;  
Best Local Similarity 100.0%; Pred. No. 9.5e-11;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEV 24  
DB 22 LTHPITKYIMACMSADLEV 40

## RESULT 12

US-08-904-686A-44  
Sequence 44, Application US/08904686A  
Patent No. 5998130  
GENERAL INFORMATION:  
APPLICANT: OKAYAMA, Hiroto  
APPLICANT: FUKU, Isao  
APPLICANT: MORI, Chisato  
APPLICANT: TAKAMIZAWA, Akahisa  
APPLICANT: YOSHIDA, Iwao  
TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC

TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE  
NUMBER OF SEQUENCES: 50  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Armstrong, Westernman, Hattori, McLeleland &  
STREET: 1725 K St. N.W. Suite 1000  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20006  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
SOFTWARE: ASCII  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US 08/904,686A  
FILING DATE: 01-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/324,977  
FILING DATE: 18-OCT-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-167466  
FILING DATE: 25-JUN-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-230921  
FILING DATE: 31-AUG-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-305605  
FILING DATE: 09-NOV-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/099,706  
FILING DATE: 30-JUL-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/769,996  
FILING DATE: 02-OCT-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/635,451  
FILING DATE: 28-DEC-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: McLeleland, Le-Nhung  
REGISTRATION NUMBER: 31,541  
REFERENCE/DOCKET NUMBER: 900703G  
TELEPHONE: (202) 659-2930  
TELEFAX: (202) 887-0357  
INFORMATION FOR SEQ ID NO: 44:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 247 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-904-686A-44

Query Match 14.3%; Score 19; DB 2; Length 247;  
Best Local Similarity 100.0%; Pred. No. 9.5e-11;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEV 24  
DB 22 LTHPITKYIMACMSADLEV 40

## RESULT 13

US-09-315-850-44  
Sequence 44, Application US/09315850  
Patent No. 6217872  
GENERAL INFORMATION:  
APPLICANT: OKAYAMA, Hiroto  
APPLICANT: FUKU, Isao  
APPLICANT: MORI, Chisato  
APPLICANT: TAKAMIZAWA, Akahisa  
APPLICANT: YOSHIDA, Iwao

;  
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC  
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE  
; NUMBER OF SEQUENCES: 50  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeland &  
; ADDRESSEE: Naughton  
; STREET: 1725 K St. N.W. Suite 1000  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20006  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/315,850  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/904,686  
; FILING DATE: 01-AUG-1997  
; APPLICATION NUMBER: US 08/324,977  
; FILING DATE: 18-OCT-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-167466  
; FILING DATE: 25-JUN-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-230921  
; FILING DATE: 31-AUG-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: JP 2-305605  
; FILING DATE: 09-NOV-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/099,706  
; FILING DATE: 30-JUL-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/769,996  
; FILING DATE: 02-OCT-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/635,451  
; FILING DATE: 28-DEC-1990  
; ATTORNEY/AGENT INFORMATION:  
; NAME: McLeland, Le-Nhung  
; REGISTRATION NUMBER: 31,541  
; REFERENCE/DOCKET NUMBER: 900703G  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 659-2930  
; TELEFAX: (202) 887-0357  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 247 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-315-850-44

Query Match 14.3%; Score 19; DB 3; Length 247;  
Best Local Similarity 100.0%; Pred. No. 9.5e-11;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEV 24  
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Db 22 LTHPITKYIMACMSADLEV 40  
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RESULT 14  
US-08-700-356-1  
; Sequence 1, Application US/08700356  
; Patent No. 5739002  
; GENERAL INFORMATION:  
; APPLICANT: DE FRANCESCO, Raffaele  
; APPLICANT: FAILLA, Cristina

;  
; APPLICANT: TOMEI, Licia  
; TITLE OF INVENTION: METHOD FOR REPRODUCING IN VITRO THE  
; TITLE OF INVENTION: PROTEOLYTIC ACTIVITY OF THE NS3 HEPATITIS C VIRUS (HCV)  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.  
; STREET: 419 Seventh Street, N.W., Suite 300  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/700,356  
; FILING DATE: 23-AUG-1996  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: BROWDY, Roger L.  
; REGISTRATION NUMBER: 25,618  
; REFERENCE/DOCKET NUMBER: DE FRANCESCO-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-628-5197  
; TELEFAX: 202-737-3528  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 631 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-700-356-1

Query Match 14.3%; Score 19; DB 1; Length 631;  
Best Local Similarity 100.0%; Pred. No. 2.3e-10;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 LTHPITKYIMACMSADLEV 24  
|||||  
Db 611 LTHPITKYIMACMSADLEV 629  
|||||

RESULT 15  
US-08-936-865-1  
; Sequence 1, Application US/08936865  
; Patent No. 5861297  
; GENERAL INFORMATION:  
; APPLICANT: Sardana, Vinod V  
; APPLICANT: Blue, Jeffrey T  
; TITLE OF INVENTION: DETERGENT-FREE HEPATITIS C PROTEASE  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MERCK & CO., INC.  
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.  
; CITY: Rahway  
; STATE: NJ  
; COUNTRY: US  
; ZIP: 07065-0907  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/936,865  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Ayler, Sylvia A  
; REGISTRATION NUMBER: 36,436

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; REFERENCE/DOCKET NUMBER: 19691
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-594-4909
; TELEFAX: 908-594-4720
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 631 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis C. Virus
; STRAIN: NS3 Serine Protease Domain
; INDIVIDUAL ISOLATE: BK
; IMMEDIATE SOURCE:
; LIBRARY: described by Tomei et al. in 1993
; CLONE: cDNA clone pCD (38-9.4)
; POSITION IN GENOME:
; MAP POSITION: 1-180
;
US-08-936-865-1

Query Match      14.3%; Score 19; DB 2; Length 631;
Best Local Similarity 100.0%; Pred.No. 2.3e-10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      6 LTHPITKYIMACMSADLEV 24
Db      611 LTHPITKYIMACMSADLEV 629
|||||
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Search completed: February 25, 2004, 01:54:33  
Job time : 24 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 25, 2004, 01:53:15 ; Search time 34 Seconds  
(without alignments)  
825.982 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 133  
Sequence: 1 QNEICLTHPTIKYIMACMSA.....VIEPIVTTNQKLEAFWHKH 133

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Gapop 60.0 , Gapext 60.0

Searched: 809742 seqs, 211153259 residues

Word size : 0

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Minimum DB seq length: 0

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Database : Published Applications AA.\*

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18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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1	133	100.0	133	10	US-09-899-046-36
2	133	100.0	133	10	US-09-878-281-36
3	98	73.7	133	10	US-09-899-046-36
4	98	73.7	133	10	US-09-899-046-36
5	98	73.7	133	10	US-09-899-046-36
6	98	73.7	133	10	US-09-878-281-38
7	98	73.7	209	10	US-09-878-281-40
8	98	73.7	209	10	US-09-899-046-223
9	52	39.1	133	10	US-09-899-046-32
10	52	39.1	133	10	US-09-899-046-34
11	52	39.1	133	10	US-09-878-281-32
12	52	39.1	133	10	US-09-878-281-34
13	48	36.1	128	14	US-10-396-964-17
14	41	30.8	829	9	US-09-881-239-5
15	41	30.8	1099	9	US-09-881-654-4

16 20 15.0 20 10 US-09-899-046-97 Sequence 97, Appl  
17 20 15.0 20 10 US-09-878-281-97 Sequence 97, Appl  
18 19 14.3 20 14 US-10-396-964-2 Sequence 2, Appli  
19 19 14.3 95 10 US-09-899-046-30 Sequence 30, Appl  
20 19 14.3 95 10 US-09-878-281-30 Sequence 30, Appl  
21 19 14.3 481 10 US-09-899-046-270 Sequence 270, App  
22 19 14.3 481 10 US-09-878-281-270 Sequence 270, App  
23 19 14.3 484 10 US-09-899-046-198 Sequence 198, App  
24 19 14.3 484 10 US-09-899-046-200 Sequence 200, App  
25 19 14.3 484 10 US-09-878-281-198 Sequence 198, App  
26 19 14.3 484 10 US-09-878-281-200 Sequence 200, App  
27 19 14.3 1692 10 US-09-919-901-4 Sequence 4, Appli  
28 19 14.3 1692 10 US-09-919-901-11 Sequence 11, Appl  
29 19 14.3 1692 10 US-09-919-901-18 Sequence 18, Appl  
30 19 14.3 1692 14 US-10-191-966-4 Sequence 4, Appli  
31 19 14.3 1692 14 US-10-191-966-11 Sequence 11, Appl  
32 19 14.3 1692 14 US-10-191-966-18 Sequence 18, Appl  
33 19 14.3 2201 13 US-10-085-476-2 Sequence 2, Appli  
34 19 14.3 2307 10 US-09-919-901-2 Sequence 2, Appli  
35 19 14.3 2307 10 US-09-919-901-9 Sequence 9, Appli  
36 19 14.3 2307 10 US-09-919-901-16 Sequence 16, Appl  
37 19 14.3 2307 14 US-10-191-966-2 Sequence 2, Appli  
38 19 14.3 2307 14 US-10-191-966-9 Sequence 9, Appli  
39 19 14.3 2307 14 US-10-191-966-16 Sequence 16, Appl  
40 19 14.3 2985 14 US-10-259-275-40 Sequence 40, Appl  
41 18 13.5 20 10 US-09-899-046-99 Sequence 99, Appl  
42 18 13.5 20 10 US-09-878-281-99 Sequence 99, Appl  
43 18 13.5 1985 14 US-10-259-275-42 Sequence 42, Appl  
44 18 13.5 2201 13 US-10-029-907-3 Sequence 3, Appli  
45 18 13.5 2201 14 US-10-309-561-3 Sequence 3, Appli

## ALIGNMENTS

RESULT 1  
US-09-899-046-36  
; Sequence 36, Application US/09899046  
; Publication No. US2003008274A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/899,046  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 36:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acid  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-899-046-36

Query Match 100.0%; Score 133; DB 10; Length 133;  
Best Local Similarity 100.0%; Pred. No. 7.6e-121;  
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNEICLTHPTIKYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVWVIGHLEGGK 60

Db 1 QNEICLTHPTIKYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVWVIGHLEGGK 60

QY 61 PAIVDPKEVLYQQYDMEECQAAPYIFQAQVIAHOFKGVLLQRAATQQAAVPIVTT 120



QY 61 PAIPVDKEVLYQYDEMECSQAAPYIEQAQVIAHQFK 98  
Db 137 PAIPVDKEVLYQYDEMECSQAAPYIEQAQVIAHQFK 174

## RESULT 9

US-09-899-046-32  
; Sequence 32, Application US/09899046  
; Publication No. US20030008274A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/899,046  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 32:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-899-046-32

Query Match 39.1%; Score 52; DB 10; Length 133;  
Best Local Similarity 100.0%; Pred. No. 1.8e-42;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TKYIMACMSADLEVTITSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62  
Db 11 TKYIMACMSADLEVTITSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62

## RESULT 10

US-09-899-046-34  
; Sequence 34, Application US/09899046  
; Publication No. US20030008274A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/899,046  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 34:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-899-046-34

Query Match 39.1%; Score 52; DB 10; Length 133;  
Best Local Similarity 100.0%; Pred. No. 1.8e-42;

Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 11 TKYIMACMSADLEVTITSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62  
Db 11 TKYIMACMSADLEVTITSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62

## RESULT 11

US-09-878-281-32  
; Sequence 32, Application US/09878281  
; Publication No. US20030032005A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/878,281  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 32:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-878-281-32

Query Match 39.1%; Score 52; DB 10; Length 133;  
Best Local Similarity 100.0%; Pred. No. 1.8e-42;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TKYIMACMSADLEVTITSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62  
Db 11 TKYIMACMSADLEVTITSTWLLGGVLAALAAAYCLSVGCVVIVGHIELGKPA 62

## RESULT 12

US-09-878-281-34  
; Sequence 34, Application US/09878281  
; Publication No. US20030032005A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/878,281  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 34:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-878-281-34

Query Match 39.1%; Score 52; DB 10; Length 133;

Best Local Similarity 100.0%; Pred. No. 1.8e-42;  
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 TKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGKPA 62  
Db 11 TKYIMACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGKPA 62

## RESULT 13

US-10-396-964-17  
; Sequence 17, Application US/10396964  
; Publication No. US20030198946A1  
; GENERAL INFORMATION:  
; APPLICANT: Simmonds, Peter  
; APPLICANT: Chan, Shiu-Wan  
; APPLICANT: Yap, Peng L.  
; TITLE OF INVENTION: Hepatitis-C Virus Testing  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
; STREET: 1211 East Morehead Street  
; CITY: Charlotte  
; STATE: No. US20030198946A1th Carolina  
; COUNTRY: United States  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0. Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/396,964  
; FILING DATE: 23-MARCH-2003  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244,116B  
; FILING DATE: 15-JUL-1994  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/GB92/02143  
; FILING DATE: 20-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 1749-125  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 704-377-1561  
; TELEFAX: 704-334-2014  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 128 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: yes  
; FRAGMENT TYPE: internal  
; ORIGINAL SOURCE:  
; ORGANISM: Hepatitis-C virus  
; US-10-396-964-17

Query Match 36.1%; Score 48; DB 14; Length 128;  
Best Local Similarity 100.0%; Pred. No. 1.3e-38;  
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 MACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGKPA 62  
Db 9 MACMSADLEVTSTWLLGGVLAALAAAYCLSVGCVIVGHIELGGKPA 56

## RESULT 14

US-09-881-239-5  
; Sequence 5, Application US/09881239

Publication No. US20020192639A1  
; GENERAL INFORMATION:  
; APPLICANT: CHIEN, David Y.  
; APPLICANT: ARCANGEL, Phillip  
; APPLICANT: TANDESKE, Laura  
; APPLICANT: GEORGE-NASCIEMENTO, Carlos  
; APPLICANT: COIT, Doris  
; APPLICANT: MEDINA-SELBY, Angelica  
; TITLE OF INVENTION: HCV ANTIGEN/ANTIBODY COMBINATION ASSAY  
; FILE REFERENCE: 2302-16073 / PP16073.003  
; CURRENT APPLICATION NUMBER: US/09/881,239  
; CURRENT FILING DATE: 2001-06-14  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 829  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 12  
US-09-881-239-5

Query Match 30.8%; Score 41; DB 9; Length 829;  
Best Local Similarity 100.0%; Pred. No. 4e-31;  
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GSKPAIVDPKVLVYQYDEMECSQAAPYIEQAQVIAHQFK 98  
Db 444 GSKPAIVDPKVLVYQYDEMECSQAAPYIEQAQVIAHQFK 484

## RESULT 15

US-09-881-654-4  
; Sequence 4, Application US/09881654  
; Patent No. US20020146685A1  
; GENERAL INFORMATION:  
; APPLICANT: CHIEN, David Y.  
; APPLICANT: ARCANGEL, Phillip  
; APPLICANT: TANDESKE, Laura  
; APPLICANT: GEORGE-NASCIEMENTO, Carlos  
; APPLICANT: COIT, Doris  
; APPLICANT: MEDINA-SELBY, Angelica  
; TITLE OF INVENTION: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES  
; FILE REFERENCE: 2302-17039 / PP17039.002  
; CURRENT APPLICATION NUMBER: US/09/881,654  
; CURRENT FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: 60/212,082  
; PRIOR FILING DATE: 2000-06-15  
; PRIOR APPLICATION NUMBER: 60/280,811  
; PRIOR FILING DATE: 2001-04-02  
; PRIOR APPLICATION NUMBER: 60/280,867  
; PRIOR FILING DATE: 2001-04-02  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 1099  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1  
US-09-881-654-4

Query Match 30.8%; Score 41; DB 9; Length 1099;  
Best Local Similarity 100.0%; Pred. No. 5.2e-31;  
Matches 41; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 58 GSKPAIVDPKVLVYQYDEMECSQAAPYIEQAQVIAHQFK 98  
Db 748 GSKPAIVDPKVLVYQYDEMECSQAAPYIEQAQVIAHQFK 788

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GenCore version 5.1.6  
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Title: US-09-638-693-36

Perfect score: 133

Sequence: 1 QNEICLTHPIYIMACMSA.....VIEPIVTNNWQKLEAFWHKH 133

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40 cdi  
-LIST=45 -DOCALLIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL  
-OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09638693@cgn\_1\_1\_44@runat\_24022004\_135649\_6723 -NCPU=6 -ICPU=3  
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA:\*  
1: /cgn2\_6/prodata/2/ina/5A COMB.seq:\*  
2: /cgn2\_6/prodata/2/ina/5B COMB.seq:\*  
3: /cgn2\_6/prodata/2/ina/6A COMB.seq:\*  
4: /cgn2\_6/prodata/2/ina/6B COMB.seq:\*  
5: /cgn2\_6/prodata/2/ina/6C COMB.seq:\*  
6: /cgn2\_6/prodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	48	36.1	367	1	US-08-244-116B-16
2	41	30.8	2499	4	Sequence 16, Appl
3	41	30.8	3297	4	Sequence 4, Appl
4	19	14.3	741	1	Sequence 3, Appl
5	19	14.3	741	2	Sequence 43, Appl
6	19	14.3	741	2	Sequence 43, Appl
7	19	14.3	741	2	Sequence 43, Appl
8	19	14.3	741	3	Sequence 43, Appl
9	19	14.3	1941	3	Sequence 116, App
10	19	14.3	1941	3	Sequence 117, App
11	19	14.3	1941	3	Sequence 118, App
12	19	14.3	1941	3	Sequence 119, App
					Sequence 120, App

13	19	14.3	1941	4	US-09-684-881-116	Sequence 116, App
14	19	14.3	1941	4	US-09-684-881-117	Sequence 117, App
15	19	14.3	1941	4	US-09-684-881-118	Sequence 118, App
16	19	14.3	1941	4	US-09-684-881-119	Sequence 119, App
17	19	14.3	1941	4	US-09-684-881-120	Sequence 120, App
18	19	14.3	1998	3	US-09-198-723A-102	Sequence 102, App
19	19	14.3	1998	3	US-09-198-723A-103	Sequence 103, App
20	19	14.3	1998	3	US-09-198-723A-104	Sequence 104, App
21	19	14.3	1998	3	US-09-198-723A-105	Sequence 105, App
22	19	14.3	1998	3	US-09-198-723A-106	Sequence 106, App
23	19	14.3	1998	3	US-09-198-723A-107	Sequence 107, App
24	19	14.3	1998	3	US-09-198-723A-108	Sequence 108, App
25	19	14.3	1998	3	US-09-198-723A-109	Sequence 109, App
26	19	14.3	1998	4	US-09-684-881-102	Sequence 102, App
27	19	14.3	1998	4	US-09-684-881-103	Sequence 103, App
28	19	14.3	1998	4	US-09-684-881-104	Sequence 104, App
29	19	14.3	1998	4	US-09-684-881-105	Sequence 105, App
30	19	14.3	1998	4	US-09-684-881-106	Sequence 106, App
31	19	14.3	1998	4	US-09-684-881-107	Sequence 107, App
32	19	14.3	1998	4	US-09-684-881-108	Sequence 108, App
33	19	14.3	1998	4	US-09-684-881-109	Sequence 109, App
34	19	14.3	2016	3	US-09-198-723A-110	Sequence 110, App
35	19	14.3	2016	3	US-09-198-723A-111	Sequence 111, App
36	19	14.3	2016	4	US-09-684-881-110	Sequence 110, App
37	19	14.3	2016	4	US-09-684-881-111	Sequence 111, App
38	19	14.3	6039	1	US-08-324-977-11	Sequence 11, Appl
39	19	14.3	6039	2	US-08-384-616-11	Sequence 11, Appl
40	19	14.3	6039	2	US-08-904-686A-11	Sequence 11, Appl
41	19	14.3	6039	3	US-09-315-850-11	Sequence 11, Appl
42	19	14.3	7863	1	US-08-324-977-35	Sequence 35, Appl
43	19	14.3	7863	2	US-08-384-616-35	Sequence 35, Appl
44	19	14.3	7863	2	US-08-904-686A-35	Sequence 35, Appl
45	19	14.3	7863	3	US-09-315-850-35	Sequence 35, Appl

#### ALIGNMENTS

##### RESULT 1

US-08-244-116B-16  
; Sequence 16, Application US/08244116B  
; Patent No. 5763159  
; GENERAL INFORMATION:  
; APPLICANT: Simmonds, Peter  
; APPLICANT: Chan, Shiu-Wan  
; TITLE OF INVENTION: Hepatitis-C Virus Testing  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
; STREET: 1211 East Morehead Street  
; CITY: Charlotte  
; STATE: No. 5763159th Carolina  
; COUNTRY: United States  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0. Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244,116B  
; FILING DATE: 15-JUL-1994  
; CLASSIFICATION: 435  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: PCT/GB92/02143  
; FILING DATE: 20-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; TELEPHONE/DOCKET NUMBER: 1749-125  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 704-377-1561  
; TELEFAX: 704-334-2014

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; INFORMATION FOR SEQ ID NO: 16:
;
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 367 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: double
;     TOPOLOGY: linear
;     MOLECULE TYPE: cDNA
;     HYPOTHETICAL: NO
;     ANTI-SENSE: NO
;     ORIGINAL SOURCE:
;     ORGANISM: Hepatitis-C virus
; US-08-244,116B-16

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Alignment Scores:		
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Score:	48.00	83
Percent Similarity:	97.65%	Conservative:
Best Local Similarity:	97.65%	Mismatches: 1
Query Match:	36.09%	Indels: 2
DB:	1	Gaps: 0

US-09-638-693-36 (1-133) x US-08-244-116B-16 (1-367)

15	QY	MetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTrpValLeuLeuGlyGly	34
26	Db	AVUGGCAUGYAUGCAGCUGAUCUGGAAGTAACACACGACUCUGGUGUGUCUGGAGGR	85
35	QY	ValLeuAlaAlaLeuAlaAlaTyrCysLeuSerValGlyCysValValIleValGlyHis	54
86	Db	GUCCUGCKGCCUAGCGGCCUACUGCUGUGCAGUCGCGCUGUGAUGUGGGYCAU	145
55	QY	IleGluLeuGlyGlyIlyProAlaIle-ValProAspIysGluValLeuTyrGlnGinty	74
146	Db	AUUGAGCUGGGRGGAAGCCVGCAMU-CGUUCCAGACAARGUGUGUAUCAACAUA	204
74	QY	rAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGlnGlnAlaGlnValIleAl	94
205	Db	CGAUGAGAUGGAGGAGUGUCUGCAAGCYGCCCCAUUAUCGAAACGUCARGUAAUGC	264
94	QY	aHisGlnPheIys	98
265	Db	CCACCAGAUUCAAG	277

## RESULT 2

```

US-09-881-239-4
; Sequence 4, Application US/09881239
; Patent No. 6630238
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: ARCANGEL, Phillip
; APPLICANT: TANDESKE, Laura
; APPLICANT: GEORGE-NASCIMENTO, Carlos
; APPLICANT: COIT, Doris
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: HCV ANTIGEN/ANTIBODY
; FILE REFERENCE: 2302-16073 / PP16073
; CURRENT APPLICATION NUMBER: US/09/081-239-4
; CURRENT FILING DATE: 2001-06-14
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 2499
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of
; NAME/KEY: CDS
; LOCATION: (1)..(2487)
US-09-881-239-4

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Alignment Scores:  
Pred. No.: 1.04e-32  
Score: 41.00  
Length: 2499  
Matches: 41

Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	30.83%	Indels:	0
DB:	4	Gaps:	0

US-09-638-693-36 (1-133) X US-09-881-239-4 (1-2499)

QY	58	GlyGlyProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMet	77
Db	1330	GGGGGACAGCCGCAATCGTTCAGACAAGAGGTGTGTATCAACAATACGATGAGATG	1389
QY	78	GluGluCysSerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhe	97
Db	1390	GAAGAGTGCTCAAGCTGCCCATATATCGAAACAAGCTCAGGTAATAGCTCACCAGTTC	1449
QY	98	Lys	98
Db	1450	AAG	1452

### RESULT 3

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US-09-881-654-3
; Sequence 3, Application US/09881654
; Patent No. 6632601
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: ARCANGEL, Phillip
; APPLICANT: TANDESK, Laura
; APPLICANT: GEORGE-NASCIEMENTO, Carlos
; APPLICANT: DORIS
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES
; FILE REFERENCE: 2302-17039 / Ppl7039.002
; CURRENT APPLICATION NUMBER: US/09/881,654
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: 60/212,082
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/280,811
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/280,867
; PRIOR FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 3297
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1
; NAME/KEY: CDS
; LOCATION: (1)..(3297)
; US-09-881-654-3

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Alignment Scores:	
Pred. No.:	1.36e-32
Score:	41.00
Length:	3297
Matches:	41
Percent Similarity:	100.00%
Best Local Similarity:	100.00%
Mismatches:	0
Query Match:	30.83%
Indels:	0
Gaps:	0
DB:	4

US-09-638-693-36 (1-133) x US-09-881-654-3 (1-3297)

Qy	58	GlyGlyLysProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMet	77
Db	2242	GGGGCAAGCCGGCAATCGTCCAGACAAGAGGTGTTGTATCAACAATACGATGAGATG	2301
Qy	78	GluGluCysSerGlnAlaIleProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhe	97
Db	2302	GAAGAGTGTCTACAAGCTGCCCATATATCGAACAGCTCAGGTAATAGCTCACCAGTTC	2361
Qy	98	Lys 98	
Db	2362	AAG 2364	

```

RESULT 4
US-08-324-977-43
; Sequence 43, Application US/08324977
; Patent No. 5747339
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeeland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 741 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna from genomic RNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..741
; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..741
US-08-324-977-43

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Alignment Scores:
Pred. No.: 1.2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 1 Gaps: 0

US-09-638-693-36 (1-133) x US-08-324-977-43 (1-741)

QY 6 LeuThrHisProIleThrIysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
DB 64 CTCACCCACCCATACCAATACATCATGTCATGCGCTGACCTGGAGGTC 120

RESULT 5
US-08-384-616-43
; Sequence 43, Application US/08384616
; Patent No. 5847101
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, McLeeland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/384,616
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Stevens-Smith, Theresa M.
; REGISTRATION NUMBER: 36,281
; REFERENCE/DOCKET NUMBER: 900703B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; TELEX: 440142
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 741 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna from genomic RNA

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;
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..741
; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..741
; US-08-384-616-43

Alignment Scores:
Pred. No.: 1.2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 2 Gaps: 0

US-09-638-693-36 (1-133) x US-08-384-616-43 (1-741)

QY 6 LeuThrHisProIleThrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 64 CTCACCCACCCATAACCAATACATCATGGCATGTCGCTGACCTGGAGGTC 120

RESULT 6
US-08-904-686A-43
; Sequence 43, Application US/08904686A
; Patent No. 5998130
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/904,686A
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
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;
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Mclelland, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 741 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..741
; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..741
; US-08-904-686A-43

Alignment Scores:
Pred. No.: 1.2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 2 Gaps: 0

US-09-638-693-36 (1-133) x US-08-904-686A-43 (1-741)

QY 6 LeuThrHisProIleThrIleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 64 CTCACCCACCCATAACCAATACATCATGGCATGTCGCTGACCTGGAGGTC 120

RESULT 7
US-09-315-850-43
; Sequence 43, Application US/09315850
; Patent No. 6217872
; GENERAL INFORMATION:
; APPLICANT: OKAYAMA, Hiroto
; APPLICANT: FUKU, Isao
; APPLICANT: MORI, Chisato
; APPLICANT: TAKAMIZAWA, Akahisa
; APPLICANT: YOSHIDA, Iwao
; TITLE OF INVENTION: NON-A, NON-B HEPATITIS VIRUS GENOMIC
; TITLE OF INVENTION: CDNA AND ANTIGEN POLYPEPTIDE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Armstrong, Westerman, Hattori, Mclelland &
; ADDRESSEE: Naughton
; STREET: 1725 K St. N.W. Suite 1000
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20006
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS, Version 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/315,850
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/904,686
; FILING DATE: 01-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/324,977
; FILING DATE: 18-OCT-1994
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-167466
; FILING DATE: 25-JUN-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-230921
; FILING DATE: 31-AUG-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: JP 2-305605
; FILING DATE: 09-NOV-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/099,706
; FILING DATE: 30-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/769,996
; FILING DATE: 02-OCT-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/635,451
; FILING DATE: 28-DEC-1990
; ATTORNEY/AGENT INFORMATION:
; NAME: McLeand, Le-Nhung
; REGISTRATION NUMBER: 31,541
; REFERENCE/DOCKET NUMBER: 900703G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 659-2930
; TELEFAX: (202) 887-0357
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 741 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA from genomic RNA
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1..741
; OTHER INFORMATION: /note: "sequence = 5178 - 5918 of
; OTHER INFORMATION: SEQ ID NO: 1"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..741
US-09-315-850-43

Alignment Scores:
Pred. No.: 1,2e-10 Length: 741
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-315-850-43 (1-741)

QY 6 LeuThriHisProileThriLysTyrlleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 64 CTCACCCACCCATAACCAATACATCATGCGCATGCTGCGTGCCTGGAGGTC 120

RESULT 8
US-09-198-723A-116
; Sequence 116, Application US/09198723A
; Patent No. 6211338
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahrar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; NUMBER OF SEQUENCES: 123
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corp.
; STREET: 2000 Galloping Hill Road
; CITY: Kenilworth
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07030
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: 8.0.1
; SOFTWARE: Microsoft Word 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198.723A
; FILING DATE: 24 NOV 1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
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; COUNTRY: USA
; ZIP: 07030
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: 8.0.1
; SOFTWARE: Microsoft Word 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198.723A
; FILING DATE: 24 NOV 1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: McLaughlin, Jaye P.
; REGISTRATION NUMBER: 41,211
; REFERENCE/DOCKET NUMBER: JB0800
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908)298-5056
; TELEFAX: (908)298-5388
; INFORMATION FOR SEQ ID NO: 116:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1941 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1941
US-09-198-723A-116

Alignment Scores:
Pred. No.: 3e-10 Length: 1941
Score: 19.00 Matches: 19
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 14.29% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-116 (1-1941)

QY 6 LeuThriHisProileThriLysTyrlleMetAlaCysMetSerAlaAspLeuGluVal 24
Db 1876 CTCACCCACCCATAACCAATACATCATGCGCATGCTGCGCCTGGAGGTC 1932

RESULT 9
US-09-198-723A-117
; Sequence 117, Application US/09198723A
; Patent No. 6211338
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahrar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; NUMBER OF SEQUENCES: 123
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corp.
; STREET: 2000 Galloping Hill Road
; CITY: Kenilworth
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07030
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: 8.0.1
; SOFTWARE: Microsoft Word 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198.723A
; FILING DATE: 24 NOV 1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
```



NAME: McLaughlin, Jaye P.  
REGISTRATION NUMBER: 41,211  
REFERENCE/DOCKET NUMBER: JB0800  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (908)298-5056  
TELEFAX: (908)298-5388

INFORMATION FOR SEQ ID NO: 117:

SEQUENCE CHARACTERISTICS:  
LENGTH: 1941 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:

NAME/KEY: CDS  
LOCATION: 1..1941

US-09-198-723A-117

Alignment Scores:  
Pred. No.: 3e-10 Length: 1941  
Score: 19.00 Matches: 19  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 14.29% Indels: 0  
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-117 (1-1941)

QY 6 LeuThHisProileThrIysTyrIleMetaLaCyseMetSerAlaAspLeuGluVal 24  
Db 1876 CTCACCCACCCATAACCAATACATGTCGATGTCGCGCCGACCTGGAGGTC 1932

RESULT 10

US-09-198-723A-118

Sequence 118, Application US/09198723A  
Patent No. 6211338

GENERAL INFORMATION:

APPLICANT: Malcolm, Bruce  
APPLICANT: Taremi, Shahrar S.  
APPLICANT: Weber, Patricia  
APPLICANT: Yao, Nannua

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus  
TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide

NUMBER OF SEQUENCES: 123

CORRESPONDENCE ADDRESS:

ADDRESSEE: Schering-Plough Corp.  
STREET: 2000 Galloping Hill Road

CITY: Kenilworth

STATE: New Jersey

COUNTRY: USA

ZIP: 07030

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Power Macintosh

OPERATING SYSTEM: 8.0.1

SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/198,723A

FILING DATE: 24 NOV 1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: McLaughlin, Jaye P.

REGISTRATION NUMBER: 41,211

REFERENCE/DOCKET NUMBER: JB0800

TELECOMMUNICATION INFORMATION:

TELEPHONE: (908)298-5056

TELEFAX: (908)298-5388

INFORMATION FOR SEQ ID NO: 118:

SEQUENCE CHARACTERISTICS:

LENGTH: 1941 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1941  
US-09-198-723A-118

Alignment Scores:

Pred. No.: 3e-10 Length: 1941  
Score: 19.00 Matches: 19  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 14.29% Indels: 0  
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-118 (1-1941)

QY 6 LeuThHisProileThrIysTyrIleMetaLaCyseMetSerAlaAspLeuGluVal 24

Db 1876 CTCACCCACCCATAACCAATACATGTCGATGTCGCGCCGACCTGGAGGTC 1932

RESULT 11

US-09-198-723A-119

Sequence 119, Application US/09198723A  
Patent No. 6211338

GENERAL INFORMATION:

APPLICANT: Malcolm, Bruce  
APPLICANT: Taremi, Shahrar S.  
APPLICANT: Weber, Patricia  
APPLICANT: Yao, Nannua

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus  
TITLE OF INVENTION: NS3 Protease and NS4A Cofactor Peptide

NUMBER OF SEQUENCES: 123

CORRESPONDENCE ADDRESS:

ADDRESSEE: Schering-Plough Corp.

STREET: 2000 Galloping Hill Road

CITY: Kenilworth

STATE: New Jersey

COUNTRY: USA

ZIP: 07030

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: Power Macintosh

OPERATING SYSTEM: 8.0.1

SOFTWARE: Microsoft Word 6.0.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/198,723A

FILING DATE: 24 NOV 1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: McLaughlin, Jaye P.

REGISTRATION NUMBER: 41,211

REFERENCE/DOCKET NUMBER: JB0800

TELECOMMUNICATION INFORMATION:

TELEPHONE: (908)298-5056

TELEFAX: (908)298-5388

INFORMATION FOR SEQ ID NO: 119:

SEQUENCE CHARACTERISTICS:

LENGTH: 1941 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..1941

US-09-198-723A-119

Alignment Scores:

Pred. No.: 3e-10 Length: 1941  
Score: 19.00 Matches: 19  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 14.29% Indels: 0

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DB:                                     3          Gaps: 0
US-09-638-693-36 (1-133) x US-09-198-723A-119 (1-1941)
QY      6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
DB      1876 CTCACCCACCCATAACCAATAACATCATGGCATGTCGGCCGACCTGGAGGTC 1932

RESULT 12
US-09-198-723A-120
; Sequence 120, Application US/09198723A
; Patent No. 6211338
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahriar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; NUMBER OF SEQUENCES: 123
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corp.
; STREET: 2000 Galloping Hill Road
; CITY: Kenilworth
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07030
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: 8.0.1
; SOFTWARE: Microsoft Word 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,723A
; FILING DATE: 24 NOV 1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: McLaughlin, Jaye P.
; REGISTRATION NUMBER: 41,211
; REFERENCE/DOCKET NUMBER: JB0800
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908)298-5056
; TELEFAX: (908)298-5388
; INFORMATION FOR SEQ ID NO: 120:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1941 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1941
US-09-198-723A-120
Alignment Scores:
Pred. No.:      3e-10      Length:      1941
Score:          19.00      Matches:      19
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match:     14.29%      Indels:      0
DB:              3          Gaps: 0

US-09-638-693-36 (1-133) x US-09-198-723A-120 (1-1941)
QY      6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
DB      1876 CTCACCCACCCATAACCAATAACATCATGGCATGTCGGCCGACCTGGAGGTC 1932

RESULT 13
US-09-684-881-116
; Sequence 116, Application US/09684881
; Patent No. 6653127
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahriar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; NUMBER OF SEQUENCES: 123
```

```
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahriar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; NUMBER OF SEQUENCES: 123
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corp.
; STREET: 2000 Galloping Hill Road
; CITY: Kenilworth
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07030
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: 8.0.1
; SOFTWARE: Microsoft Word 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/684,881
; FILING DATE: 06-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/198,723
; FILING DATE: 24 NOV 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: McLaughlin, Jaye P.
; REGISTRATION NUMBER: 41,211
; REFERENCE/DOCKET NUMBER: JB0800
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908)298-5056
; TELEFAX: (908)298-5388
; INFORMATION FOR SEQ ID NO: 116:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1941 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1941
; SEQUENCE DESCRIPTION: SEQ ID NO: 116:
US-09-684-881-116
Alignment Scores:
Pred. No.:      3e-10      Length:      1941
Score:          19.00      Matches:      19
Percent Similarity: 100.00%  Conservative: 0
Best Local Similarity: 100.00%  Mismatches: 0
Query Match:     14.29%      Indels:      0
DB:              4          Gaps: 0

US-09-638-693-36 (1-133) x US-09-684-881-116 (1-1941)
QY      6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24
DB      1876 CTCACCCACCCATAACCAATAACATCATGGCATGTCGGCCGACCTGGAGGTC 1932

RESULT 14
US-09-684-881-117
; Sequence 117, Application US/09684881
; Patent No. 6653127
; GENERAL INFORMATION:
; APPLICANT: Malcolm, Bruce
; APPLICANT: Taremi, Shahriar S.
; APPLICANT: Weber, Patricia
; APPLICANT: Yao, Nanhua
; TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus
; NUMBER OF SEQUENCES: 123
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CORRESPONDENCE ADDRESS:  
ADDRESSEE: Schering-Plough Corp.  
STREET: 2000 Galloping Hill Road  
CITY: Kenilworth  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07030

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: Power Macintosh  
OPERATING SYSTEM: 8.0.1  
SOFTWARE: Microsoft Word 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/684,881  
FILING DATE: 06-Oct-2000  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/198,723  
FILING DATE: 24 NOV 1998  
ATTORNEY/AGENT INFORMATION:  
NAME: McLaughlin, Jaye P.  
REGISTRATION NUMBER: 41,211  
REFERENCE/DOCKET NUMBER: JB0800  
TELEPHONE: (908)298-5056  
TELEFAX: (908)298-5388  
INFORMATION FOR SEQ ID NO: 117:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1941 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:

NAME/KEY: CDS  
LOCATION: 1..1941  
SEQUENCE DESCRIPTION: SEQ ID NO: 117:  
US-09-684-881-117

Alignment Scores:  
Pred. No.: 3e-10 Length: 1941  
Score: 19.00 Matches: 19  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 14.29% Indels: 0  
DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-684-881-117 (1-1941)

QY 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24  
Db 1876 CTCACCCACCCCAATACCAATACATGTCGTCGCGGACCTGGAGGTC 1932

RESULT 15

US-09-684-881-118

; Sequence 118, Application US/09684881

; Patent No. 6653127

; GENERAL INFORMATION:

APPLICANT: Malcolm, Bruce

Taremi, Shahriar S.

Weber, Patricia

Yao, Nanhua

TITLE OF INVENTION: Covalent Complexes of Hepatitis C Virus

NS3 Protease and NS4A Cofactor Peptide

NUMBER OF SEQUENCES: 123

CORRESPONDENCE ADDRESS:

ADDRESSEE: Schering-Plough Corp.

STREET: 2000 Galloping Hill Road

CITY: Kenilworth

STATE: New Jersey

COUNTRY: USA

ZIP: 07030

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: Power Macintosh  
OPERATING SYSTEM: 8.0.1  
SOFTWARE: Microsoft Word 6.0.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/684,881  
FILING DATE: 06-Oct-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/198,723  
FILING DATE: 24 NOV 1998  
ATTORNEY/AGENT INFORMATION:  
NAME: McLaughlin, Jaye P.  
REGISTRATION NUMBER: 41,211  
REFERENCE/DOCKET NUMBER: JB0800  
TELEPHONE: (908)298-5056  
TELEFAX: (908)298-5388  
INFORMATION FOR SEQ ID NO: 118:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1941 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1941  
SEQUENCE DESCRIPTION: SEQ ID NO: 118:  
US-09-684-881-118

Alignment Scores:  
Pred. No.: 3e-10 Length: 1941  
Score: 19.00 Matches: 19  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 14.29% Indels: 0  
DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-684-881-118 (1-1941)

QY 6 LeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluVal 24

Db 1876 CTCACCCACCCCAATACCAATACATGTCGTCGCGGACCTGGAGGTC 1932

Search completed: February 27, 2004, 22:50:43

Job time : 68 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 27, 2004, 22:44:55 ; Search time 252 Seconds

(without alignments)  
1903.941 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 133

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Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 2353733 seqs, 1803733377 residues

Word size: 1

Total number of hits satisfying chosen parameters: 4700994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-DB=Published Applications NA -QFWI=fastcap -SUFFIX=rnpb -MINMATCH=0.1  
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-TRANS=human40.cdi -LIST=45 -DOALIGN=200 -THR SCORE=quality -THR MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09638693@cgn.1.1.164 @runat\_24022004.135650\_6761  
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Database : Published Applications NA:

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5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*  
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12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result	Query	Match	Length	DB	ID	Description
No.	Score					

1	133	100.0	401	10	US-09-899-046-35	Sequence 35, Appl
2	133	100.0	401	10	US-09-878-281-35	Sequence 35, Appl
3	98	73.7	401	10	US-09-899-046-37	Sequence 37, Appl
4	98	73.7	401	10	US-09-899-046-39	Sequence 39, Appl
5	98	73.7	401	10	US-09-878-281-37	Sequence 37, Appl
6	98	73.7	401	10	US-09-878-281-39	Sequence 39, Appl
7	98	73.7	629	10	US-09-899-046-222	Sequence 222, App
8	98	73.7	629	10	US-09-878-281-222	Sequence 222, App
9	52	39.1	401	10	US-09-899-046-31	Sequence 31, Appl
10	52	39.1	401	10	US-09-899-046-33	Sequence 33, Appl
11	52	39.1	401	10	US-09-878-281-31	Sequence 31, Appl
12	52	39.1	401	10	US-09-878-281-33	Sequence 33, Appl
13	48	36.1	367	14	US-10-396-964-16	Sequence 16, Appl
14	41	30.8	2499	9	US-09-881-239-4	Sequence 4, Appl
15	41	30.8	3297	9	US-09-881-654-3	Sequence 3, Appl
16	19	14.3	287	10	US-09-899-046-29	Sequence 29, Appl
17	19	14.3	287	10	US-09-878-281-29	Sequence 29, Appl
18	19	14.3	1443	10	US-09-899-046-269	Sequence 269, App
19	19	14.3	1443	10	US-09-878-281-269	Sequence 269, App
20	19	14.3	1485	10	US-09-899-046-197	Sequence 197, App
21	19	14.3	1485	10	US-09-899-046-199	Sequence 199, App
22	19	14.3	1485	10	US-09-878-281-197	Sequence 197, App
23	19	14.3	1485	10	US-09-878-281-199	Sequence 199, App
24	19	14.3	9275	14	US-10-259-275-39	Sequence 39, Appl
25	19	14.3	9413	10	US-09-827-688-6	Sequence 6, Appl
26	19	14.3	13910	10	US-09-919-901-1	Sequence 1, Appl
27	19	14.3	13910	10	US-09-919-901-8	Sequence 8, Appl
28	19	14.3	13910	10	US-09-919-901-15	Sequence 15, Appl
29	19	14.3	13910	14	US-10-191-966-1	Sequence 1, Appl
30	19	14.3	13910	14	US-10-191-966-8	Sequence 8, Appl
31	19	14.3	13910	14	US-10-191-966-15	Sequence 15, Appl
32	18	13.5	6189	14	US-10-259-275-41	Sequence 41, Appl
33	18	13.5	7989	15	US-10-434-842-16	Sequence 16, Appl
34	18	13.5	7992	13	US-10-005-469-1	Sequence 1, Appl
35	18	13.5	7992	13	US-10-005-469-2	Sequence 2, Appl
36	18	13.5	7992	13	US-10-005-469-4	Sequence 4, Appl
37	18	13.5	7992	13	US-10-005-469-5	Sequence 5, Appl
38	18	13.5	7992	13	US-10-005-469-6	Sequence 6, Appl
39	18	13.5	7992	15	US-10-434-842-1	Sequence 1, Appl
40	18	13.5	7992	15	US-10-434-842-2	Sequence 2, Appl
41	18	13.5	7992	15	US-10-434-842-4	Sequence 4, Appl
42	18	13.5	7992	15	US-10-434-842-5	Sequence 5, Appl
43	18	13.5	7992	15	US-10-434-842-6	Sequence 6, Appl
44	18	13.5	7992	15	US-10-434-842-15	Sequence 15, Appl
45	18	13.5	7992	15	US-10-434-842-17	Sequence 17, Appl

#### ALIGNMENTS

##### RESULT 1

US-09-899-046-35  
; Sequence 35, Application US/09899046  
; Publication No. US20030008274A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/899,046  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 35:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 401 base pairs  
; TYPE: nucleic acid



;  
 ; LENGTH: 401 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; HYPOTHETICAL: NO  
 ; ANTI-SENSE: NO  
 ; IMMEDIATE SOURCE:  
 ; CLONE: BR36-20-166  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 3..401  
 ; US-09-899-046-37

Alignment Scores:  
 Pred. No.: 2,436-96 Length: 401  
 Score: 98.00 Matches: 132  
 Percent Similarity: 98.51% Conservative: 0  
 Best Local Similarity: 98.51% Mismatches: 1  
 Query Match: 73.68% Indels: 2  
 DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-37 (1-401)

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20  
 Db 3 CAAATGAATCTGCTTGACACACCCCATCACAATAATACATCATGCGATGCGATGCGCT 62  
 QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40  
 Db 63 GATCTGGAGTAACACACACACCTGGGTTTGTCTGGAGGGTCTCTCGCGCCCTAGCG 122  
 QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleLeuLeuGlyGly 60  
 Db 123 GCCTACTGCTGTCAGTCGGTGTGTGTGATTTGGGTTCATTCAGCTGGGGGCGAAG 182  
 QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnTyrAspGluMetGluGluCys 80  
 Db 183 CCGGCAATCGTTCACACAAAGAGGTGTGTATCAACATACGATGAGATGGAAGTGC 242  
 QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGly 100  
 Db 243 TCACAGCTGCCCATATATCAACAAGCTCAGGTGATAGCTCACCAGTTCAA-GGAAAA 301  
 QY 100 sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValTh 120  
 Db 302 ACTCCTTGATTTGCTGCAGCGAGCCACCAACAAAGCTGTCATGTGAGCCCATAGTAAC 361  
 QY 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133  
 Db 362 TACCAACTGGCAAAAGCTTGAGGCCTTTTGGCACAGCAT 401

RESULT 4

US-09-899-046-39

; Sequence 39, Application US/09899046

; Publication No. US2003008274A1

; GENERAL INFORMATION:

; APPLICANT:

; TITLE OF INVENTION: New sequences of hepatitis C virus

; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

; NUMBER OF SEQUENCES: 270

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/899,046

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/362,455

; FILING DATE:

; INFORMATION FOR SEQ ID NO: 39:

;  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 401 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: cDNA  
 ; HYPOTHETICAL: NO  
 ; ANTI-SENSE: NO  
 ; IMMEDIATE SOURCE:  
 ; CLONE: BR36-20-165  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 3..401  
 ; US-09-899-046-39

Alignment Scores:  
 Pred. No.: 2,436-96 Length: 401  
 Score: 98.00 Matches: 132  
 Percent Similarity: 98.51% Conservative: 0  
 Best Local Similarity: 98.51% Mismatches: 1  
 Query Match: 73.68% Indels: 2  
 DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-39 (1-401)

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20  
 Db 3 CAAATGAATCTGCTTGACACACCCCATCACAATAATACATCATGCGATGCGATGCGCT 62  
 QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40  
 Db 63 GATCTGGAGTAACACACACACCTGGGTTTGTCTGGAGGGTCTCTCGCGCCCTAGCG 122  
 QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGly 60  
 Db 123 GCCTACTGCTGTCAGTCGGTGTGTGTGATTTGGGTTCATTCAGCTGGGGGCGAAG 182  
 QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnTyrAspGluMetGluGluCys 80  
 Db 183 CCGGCAATCGTTCACACAAAGAGGTGTGTATCAACATACGATGAGATGGAAGTGC 242  
 QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGly 100  
 Db 243 TCACAGCTGCCCATATATCAACAAGCTCAGGTGATAGCTCACCAGTTCAA-GGAAAA 301  
 QY 100 sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValTh 120  
 Db 302 ACTCCTTGATTTGCTGCAGCGAGCCACCAACAAAGCTGTCATGTGAGCCCATAGTAAC 361  
 QY 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133  
 Db 362 TACCAACTGGCAAAAGCTTGAGGCCTTTTGGCACAGCAT 401

RESULT 5

US-09-878-281-37

; Sequence 37, Application US/09878281

; Publication No. US20030032005A1

; GENERAL INFORMATION:

; APPLICANT:

; TITLE OF INVENTION: New sequences of hepatitis C virus

; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

; NUMBER OF SEQUENCES: 270

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/878,281

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/362,455

; FILING DATE:

; INFORMATION FOR SEQ ID NO: 37:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 401 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

; IMMEDIATE SOURCE:

; CLONE: BR36-20-166

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 3..401

; US-09-878-281-37

Alignment Scores:

Pred. No.:	2,43e-96	Length:	401
Score:	98.00	Matches:	132
Percent Similarity:	98.51%	Conservative:	0
Best Local Similarity:	98.51%	Mismatches:	1
Query Match:	73.68%	Indels:	2
DB:	10	Gaps:	0

US-09-638-693-36 (1-133) x US-09-878-281-37 (1-401)

QY	1	GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla	20
DB	3	CAAAATGAATCTGCTTGACACACCCCATCAAAAATACATCATGCGATGCGT	62
QY	21	AspLeuGluValThrSerThrValLeuLeuGlyGlyValLeuAlaLeuAla	40
DB	63	GATCTGGAAGTAACACACACACCTGGGTTTGTCTGGAGGGGTCTCGCGCCCTAGCG	122
QY	41	AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys	60
DB	123	GCCTACTGCTTGTGATCGGTTGTGTGATTTGTGGTTCATATCGAGCTGGGGGCAAG	182
QY	61	ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys	80
DB	183	CGGCAATCGTCCAGACAAAGAGGTGTGTATCAACATACATGATGATGGAAGTGC	242
QY	81	SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGly-Ly	100
DB	243	TCACAAGCTGCCCATATATCGAACAGCTCAGGTGATAGCTCACCAGTTCAA-GGAAAA	301
QY	100	sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValTh	120
DB	302	AGTCCTTGATTGCTCGACGAGCCACCAACAAAGCTGTCAATTGAGCCCATAGTAAC	361
QY	120	rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis	133
DB	362	TACCAACTGGCAAAAGCTTGAGGCTTTTGGCACAAGCAT	401

RESULT 6

US-09-878-281-39

; Sequence 39, Application US/09878281

; Publication No. US20030032005A1

; GENERAL INFORMATION:

; APPLICANT:

; TITLE OF INVENTION: New sequences of hepatitis C virus

; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

; NUMBER OF SEQUENCES: 270

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/878,281

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/362,455

; FILING DATE:

; INFORMATION FOR SEQ ID NO: 39:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 401 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

; IMMEDIATE SOURCE:

; CLONE: BR36-20-165

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 3..401

; US-09-878-281-39

Alignment Scores:

Pred. No.:	2,43e-96	Length:	401
Score:	98.00	Matches:	132
Percent Similarity:	98.51%	Conservative:	0
Best Local Similarity:	98.51%	Mismatches:	1
Query Match:	73.68%	Indels:	2
DB:	10	Gaps:	0

US-09-638-693-36 (1-133) x US-09-878-281-39 (1-401)

QY	1	GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla	20
DB	3	CAAAATGAATCTGCTTGACACACCCCATCAAAAATACATCATGCGATGCGT	62
QY	21	AspLeuGluValThrSerThrValLeuLeuGlyGlyValLeuAlaLeuAla	40
DB	63	GATCTGGAAGTAACACACACACCTGGGTTTGTCTGGAGGGGTCTCGCGCCCTAGCG	122
QY	41	AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys	60
DB	123	GCCTACTGCTTGTGATCGGTTGTGTGATTTGTGGTTCATATCGAGCTGGGGGCAAG	182
QY	61	ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys	80
DB	183	CGGCAATCGTTCAGACAAAGAGGTGTGTATCAACATACATGATGATGGAAGTGC	242
QY	81	SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGly-Ly	100
DB	243	TCACAAGCTGCCCATATATCGAACAGCTCAGGTGATAGCTCACCAGTTCAA-GGAAAA	301
QY	100	sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValTh	120
DB	302	AGTCCTTGATTGCTCGACGAGCCACCAACAAAGCTGTCAATTGAGCCCATAGTAAC	361
QY	120	rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis	133
DB	362	TACCAACTGGCAAAAGCTTGAGGCTTTTGGCACAAGCAT	401

RESULT 7

US-09-899-046-222

; Sequence 222, Application US/09899046

; Publication No. US20030008274A1

; GENERAL INFORMATION:

; APPLICANT:

; TITLE OF INVENTION: New sequences of hepatitis C virus

; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.

; NUMBER OF SEQUENCES: 270

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: IBM PC compatible

; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/899,046

; FILING DATE:

; PRIOR APPLICATION DATA:

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/ APPLICATION NUMBER: 08/362,455
/ FILING DATE:
/ INFORMATION FOR SEQ ID NO: 222:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 629 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 3..629
/ NAME/KEY: mat peptide
/ LOCATION: 3..629
US-09-899-046-222

Alignment Scores:
Pred. No.: 3 68e-96 Length: 629
Score: 98.00 Matches: 132
Percent Similarity: 98.51% Conservative: 0
Best Local Similarity: 98.51% Mismatches: 1
Query Match: 73.68% Indels: 2
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-222 (1-629)
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 231 CAAATGAAATCTGTTGACACACCCCATCACAAATATACATCATGTCATGTCAGCT 290
QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 291 GATCTGGAAGTACCAACACAGCTGGGTTTGTCTGGAGGGGTCTCTCGGCCCTTAGCG 350
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60
Db 351 GCCTACTGTTGTCAGTCGGTTGTGTGTGATTGTGGGTTCATATCAGCTGGGGGCAAG 410
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80
Db 411 CCGGCAATCGTTCACAGCAAGAGGTGTGTATCAACAATACGATGAGATGGAAGAGTGC 470
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGly-Ly 100
Db 471 TCACAAGCTGCCCATATATCGAACAGCTCAGGTAAAGTACACAGTTCAA-GGAAAA 529
QY 100 sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValTh 120
Db 530 AGTCCTTGGATTGTCAGCGAGGCCACCAACAACAGCTGTCAATTGAGCCCATAGTAAC 589
QY 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 590 TACCAACTGGCAAAAGCTTGAGGCCCTTTGGCACAAGCAT 629

RESULT 8
US-09-878-281-222
/ Sequence 222, Application US/09878281
/ Publication No. US20030032005A1
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: New sequences of hepatitis C virus
/ TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
/ NUMBER OF SEQUENCES: 270
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/878,281
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/ FILING DATE:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/362,455
/ FILING DATE:
/ INFORMATION FOR SEQ ID NO: 222:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 629 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: cDNA
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: 3..629
/ NAME/KEY: mat peptide
/ LOCATION: 3..629
US-09-878-281-222

Alignment Scores:
Pred. No.: 3 68e-96 Length: 629
Score: 98.00 Matches: 132
Percent Similarity: 98.51% Conservative: 0
Best Local Similarity: 98.51% Mismatches: 1
Query Match: 73.68% Indels: 2
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-878-281-222 (1-629)
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 231 CAAATGAAATCTGTTGACACACCCCATCACAAATATACATCATGTCATGTCAGCT 290
QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 291 GATCTGGAAGTACCAACACAGCTGGGTTTGTCTGGAGGGGTCTCTCGGCCCTTAGCG 350
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60
Db 351 GCCTACTGTTGTCAGTCGGTTGTGTGTGATTGTGGGTTCATATCAGCTGGGGGCAAG 410
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80
Db 411 CCGGCAATCGTTCACAGCAAGAGGTGTGTATCAACAATACGATGAGATGGAAGAGTGC 470
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGly-Ly 100
Db 471 TCACAAGCTGCCCATATATCGAACAGCTCAGGTAAAGTACACAGTTCAA-GGAAAA 529
QY 100 sValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValTh 120
Db 530 AGTCCTTGGATTGTCAGCGAGGCCACCAACAACAGCTGTCAATTGAGCCCATAGTAAC 589
QY 120 rThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 590 TACCAACTGGCAAAAGCTTGAGGCCCTTTGGCACAAGCAT 629

RESULT 9
US-09-899-046-31
/ Sequence 31, Application US/09899046
/ Publication No. US20030008274A1
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: New sequences of hepatitis C virus
/ TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
/ NUMBER OF SEQUENCES: 270
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
```



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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 401 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE:
; CLONE: HD10-1-25
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..401
; US-09-899-046-31

Alignment Scores:
Pred. No.: 8.72e-47 Length: 401
Score: 52.00 Matches: 87
Percent Similarity: 97.75% Conservative: 0
Best Local Similarity: 97.75% Mismatches: 1
Query Match: 39.10% Indels: 2
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-31 (1-401)
QY 11 ThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTropVal 30
Db 33 ACAAATACATTATGCGATGTCATGCTGAGTGAAGTAAACCAACCACTGGGTG 92
QY 31 LeuLeuGlyGlyValLeuAlaAlaLeuAlaAlaTyrCysLeuSerValGlyCysValVal 50
Db 93 TTGCTTGGAGGGTCTCTCGGGGCCCTAGCGGCTACTGCTTGTTCAGTTCGGCTGGTGA 152
QY 51 IleValGlyHisIleGluLeuGlyGlyProAlaIle-ValProAspIleGluValLe 70
Db 153 ATCGTGGGTCTATTCAGTCTGAGGCTGGGGGCAAGCCGGCACT-CGTTCCAGACAAGGAGGTGT 211
QY 70 uTyrGlnGlnTyrAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGluGlnAl 90
Db 212 GTATCAACAGTACGATGAGATGAGAGTGTCTGCAAGCGCCCATACATCAACAACAGC 271
QY 90 aGlnValIleAlaHisGlnPhelys 98
Db 272 TCAGGTAATAGCCACCAGTTCAG 296

RESULT 10
US-09-899-046-33
; Sequence 33, Application US/09899046
; Publication No. US2003008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 401 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
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; SEQUENCE CHARACTERISTICS:
; LENGTH: 401 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; IMMEDIATE SOURCE:
; CLONE: HD10-1-3
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 3..401
; US-09-899-046-33

Alignment Scores:
Pred. No.: 8.72e-47 Length: 401
Score: 52.00 Matches: 87
Percent Similarity: 97.75% Conservative: 0
Best Local Similarity: 97.75% Mismatches: 1
Query Match: 39.10% Indels: 2
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-899-046-33 (1-401)
QY 11 ThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTropVal 30
Db 33 ACAAATACATTATGCGATGTCATGCTGAGTGAAGTAAACCAACCACTGGGTG 92
QY 31 LeuLeuGlyGlyValLeuAlaAlaLeuAlaAlaTyrCysLeuSerValGlyCysValVal 50
Db 93 TTGCTTGGAGGGTCTCTCGGGGCCCTAGCGGCTACTGCTTGTTCAGTTCGGCTGGTGA 152
QY 51 IleValGlyHisIleGluLeuGlyGlyProAlaIle-ValProAspIleGluValLe 70
Db 153 ATCGTGGGTCTATTCAGTCTGAGGCTGGGGGCAAGCCGGCACT-CGTTCCAGACAAGGAGGTGT 211
QY 70 uTyrGlnGlnTyrAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGluGlnAl 90
Db 212 GTATCAACAGTACGATGAGATGAGAGTGTCTGCAAGCGCCCATACATCAACAACAGC 271
QY 90 aGlnValIleAlaHisGlnPhelys 98
Db 272 TCAGGTAATAGCCACCAGTTCAG 296

RESULT 11
US-09-878-281-31
; Sequence 31, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 401 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
```

ANTI-SENSE: NO  
IMMEDIATE SOURCE:  
CLONE: HD10-1-25  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 3..401  
US-09-878-281-31

## Alignment Scores:

Pred. No.: 8,72e-47 Length: 401  
Score: 52.00 Matches: 87  
Percent Similarity: 97.75% Conservative: 0  
Best Local Similarity: 97.75% Mismatches: 1  
Query Match: 39.10% Indels: 2  
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-878-281-31 (1-401)

QY 11 ThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTrpVal 30  
DB 33 ACATAATACATTATGGCATGTCAGCTGATCTGGAAGTAACCAACGACACCTGGGTG 92  
QY 31 LeuLeuGlyGlyValLeuAlaAlaLeuAlaTyrCysLeuSerValGlyCysValVal 50  
DB 93 TTGCTTGGAGGGTCTCTCGCGCCCTAGCGGCTACTGCTTGTGTCAGTGGCTGGTGTGA 152  
QY 51 IleValGlyHisIleGluLeuGlyLysProAlaIle-ValProAspLysGluVal 70  
DB 153 ATCGTGGTTCATATGAGTGGGGGCAAGCGGCACT-CGTTCCAGACAGAGGTGT 211  
QY 70 uTyrGlnGlnTyrAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGluGlnAl 90  
DB 212 GTATCAACAGTACGATGAGTGGAGAGTGTCTCGAAGCGGCCCATACATCGACACAGC 271  
QY 90 aGlnValIleAlaHisGlnPheLys 98  
DB 272 TCAGGTAATAGCCACCAAGTTCAAG 296

## RESULT 12

US-09-878-281-33  
Sequence 33, Application US/09878281  
Publication No. US20030032005A1  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/878,281  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 401 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
IMMEDIATE SOURCE:  
CLONE: HD10-1-3  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 3..401  
US-09-878-281-33

## Alignment Scores:

Pred. No.: 8,72e-47 Length: 401  
Score: 52.00 Matches: 87  
Percent Similarity: 97.75% Conservative: 0  
Best Local Similarity: 97.75% Mismatches: 1  
Query Match: 39.10% Indels: 2  
DB: 10 Gaps: 0

US-09-638-693-36 (1-133) x US-09-878-281-33 (1-401)

QY 11 ThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSerThrTrpVal 30  
DB 33 ACATAATACATTATGGCATGTCAGCTGATCTGGAAGTAACCAACGACACCTGGGTG 92  
QY 31 LeuLeuGlyGlyValLeuAlaAlaLeuAlaTyrCysLeuSerValGlyCysValVal 50  
DB 93 TTGCTTGGAGGGTCTCTCGCGCCCTAGCGGCTACTGCTTGTGTCAGTGGCTGGTGTGA 152  
QY 51 IleValGlyHisIleGluLeuGlyLysProAlaIle-ValProAspLysGluVal 70  
DB 153 ATCGTGGTTCATATGAGTGGGGGCAAGCGGCACT-CGTTCCAGACAGAGGTGT 211  
QY 70 uTyrGlnGlnTyrAspGluMetGluGluCysSerGlnAlaAlaProTyrIleGluGlnAl 90  
DB 212 GTATCAACAGTACGATGAGTGGAGAGTGTCTCGAAGCGGCCCATACATCGACACAGC 271  
QY 90 aGlnValIleAlaHisGlnPheLys 98  
DB 272 TCAGGTAATAGCCACCAAGTTCAAG 296

## RESULT 13

US-10-396-964-16  
Sequence 16, Application US/10396964  
Publication No. US20030198946A1  
GENERAL INFORMATION:  
APPLICANT: Simmonds, Peter  
APPLICANT: Chan, Shiu-Wan  
APPLICANT: Yap, Peng L.  
TITLE OF INVENTION: Hepatitis-C Virus Testing  
NUMBER OF SEQUENCES: 53  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
STREET: 1211 East Morehead Street  
CITY: Charlotte  
STATE: No. US20030198946A1th Carolina  
COUNTRY: United States  
ZIP: 28234  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/396,964  
FILING DATE: 23-MARCH-2003  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/244,116B  
FILING DATE: 15-JUL-1994  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB92/02143  
FILING DATE: 20-NOV-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Sibley, Kenneth D.  
REGISTRATION NUMBER: 31,665  
REFERENCE/DOCKET NUMBER: 1749-125  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 704-377-1561  
TELEFAX: 704-334-2014  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:

```
; LENGTH: 367 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
; US-10-396-964-16

Alignment Scores:
Pred. No.: 1-64e-42 Length: 367
Score: 48.00 Matches: 83
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 1
Query Match: 36.09% Indels: 2
DB: 14 Gaps: 0

US-09-638-693-36 (1-133) x US-10-396-964-16 (1-367)
QY 15 MetAlaCysMetSerLalaSpLeuGluValThrThrSerThrTrpValLeuLeuGlyGly 34
Db 26 AUGGCAUGAUGCAGCUGAUCUGGAAGUAACACCAAGCAGCAGCUGGUGUGUUGCUUGAGGR 85
QY 35 ValLeuAlaAlaLeuAlaLaTyrCysLeuSerValGlyCysValValLeuValGlyHis 54
Db 86 GUCCUCGCGKCCUACGCGCCUACUCGUGUGCAGCGGCGUGUGUGAUGUGGGYCAU 145
QY 55 IleGluLeuGlyGlyLysProAlaIle-ValProAspLysGluValLeuTyrGlnGlnTy 74
Db 146 AUGAGCUGGGRGGCAAGCCVGCAMU-CGUUCCAGACAARGAGUGUGUAUACAACAUA 204
QY 74 rAspGluMetGluGluCysSerGlnAlaLaProTyrIleGluGlnAlaGlnValIleAl 94
Db 205 CGAUGAGAGUGGAGGAGUGUCGACGCGCCCAUAUACGAACAGCUCARGUAUGC 264
QY 94 aHisGlnPheLys 98
Db 265 CCACCAAGUUCAG 277

RESULT 14
US-09-881-654-3
; Sequence 4, Application US/09881239
; Publication No. US20020192639A1
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: TANDESKE, Phillip
; APPLICANT: GEORGE-NASCIENTO, Carlos
; APPLICANT: COIT, Doris
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: HCV ANTIGEN/ANTIBODY COMBINATION ASSAY
; FILE REFERENCE: 2302-16073 / PP16073.003
; CURRENT APPLICATION NUMBER: US/09/881,239
; CURRENT FILING DATE: 2001-06-14
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 4
; LENGTH: 2499
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 12
; NAME/KEY: CDS
; LOCATION: (1)..(2487)
; US-09-881-239-4

Alignment Scores:
Pred. No.: 3-33e-34 Length: 2499
Score: 41.00 Matches: 41
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0

; LENGTH: 367 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
; US-10-396-964-16

Alignment Scores:
Pred. No.: 1-64e-42 Length: 367
Score: 48.00 Matches: 83
Percent Similarity: 97.65% Conservative: 0
Best Local Similarity: 97.65% Mismatches: 1
Query Match: 36.09% Indels: 2
DB: 14 Gaps: 0

US-09-638-693-36 (1-133) x US-10-396-964-16 (1-367)
QY 15 MetAlaCysMetSerLalaSpLeuGluValThrThrSerThrTrpValLeuLeuGlyGly 34
Db 26 AUGGCAUGAUGCAGCUGAUCUGGAAGUAACACCAAGCAGCAGCUGGUGUGUUGCUUGAGGR 85
QY 35 ValLeuAlaAlaLeuAlaLaTyrCysLeuSerValGlyCysValValLeuValGlyHis 54
Db 86 GUCCUCGCGKCCUACGCGCCUACUCGUGUGCAGCGGCGUGUGUGAUGUGGGYCAU 145
QY 55 IleGluLeuGlyGlyLysProAlaIle-ValProAspLysGluValLeuTyrGlnGlnTy 74
Db 146 AUGAGCUGGGRGGCAAGCCVGCAMU-CGUUCCAGACAARGAGUGUGUAUACAACAUA 204
QY 74 rAspGluMetGluGluCysSerGlnAlaLaProTyrIleGluGlnAlaGlnValIleAl 94
Db 205 CGAUGAGAGUGGAGGAGUGUCGACGCGCCCAUAUACGAACAGCUCARGUAUGC 264
QY 94 aHisGlnPheLys 98
Db 265 CCACCAAGUUCAG 277

RESULT 15
US-09-881-654-3
; Sequence 3, Application US/09881654
; Patent No. US20020146685A1
; GENERAL INFORMATION:
; APPLICANT: CHIEN, David Y.
; APPLICANT: TANDESKE, Phillip
; APPLICANT: GEORGE-NASCIENTO, Carlos
; APPLICANT: COLT, Doris
; APPLICANT: MEDINA-SELBY, Angelica
; TITLE OF INVENTION: IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES
; FILE REFERENCE: 2302-17039 / PP17039.002
; CURRENT APPLICATION NUMBER: US/09/881,654
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: 60/212,082
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/280,811
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/280,867
; PRIOR FILING DATE: 2001-04-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3
; LENGTH: 3297
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: MEFA 7.1
; NAME/KEY: CDS
; LOCATION: (1)..(3297)
; US-09-881-654-3

Alignment Scores:
Pred. No.: 4-29e-34 Length: 3297
Score: 41.00 Matches: 41
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 30.83% Indels: 0
DB: 9 Gaps: 0

US-09-638-693-36 (1-133) x US-09-881-654-3 (1-3297)
QY 58 GlyGlyLysProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMet 77
Db 2242 GGGGCAAGCCGCGCANTGTTCCAGACAAGAGGTGTTGATCAACAATACGATGAGATG 2301
QY 78 GluGluCysSerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhe 97
Db 2302 GAAGAGTGCTCACAGCTGCCCATATATCGAACAGCTCAGGTATAGCTCACCAGTTC 2361
QY 98 Lys 98
Db 2362 AAG 2364
```

Search completed: February 27, 2004, 23:48:54  
Job time : 255 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 25, 2004, 01:46:44 ; Search time 22 Seconds  
(without alignments)  
312.102 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEICLTHPTKYIMACMSA.....VIEPIVTNWKLEAFWHKH 133

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*

- 1: /cgn2\_6/prodata/2/iaa/5A COMB.pep.\*
- 2: /cgn2\_6/prodata/2/iaa/5B COMB.pep.\*
- 3: /cgn2\_6/prodata/2/iaa/6A COMB.pep.\*
- 4: /cgn2\_6/prodata/2/iaa/6B COMB.pep.\*
- 5: /cgn2\_6/prodata/2/iaa/PCTUS COMB.pep.\*
- 6: /cgn2\_6/prodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	572	81.8	128	1	US-08-244-116B-17
2	539	77.1	3012	3	US-08-811-566-2
3	539	77.1	3012	4	US-09-034-756-2
4	534	76.4	313	2	US-08-483-695-45
5	534	76.4	313	2	US-07-965-285-45
6	534	76.4	313	2	US-08-487-231-45
7	534	76.4	313	3	US-09-201-912-45
8	534	76.4	382	3	US-08-444-818-68
9	534	76.4	460	3	US-08-444-818-20
10	534	76.4	592	3	US-08-867-611-47
11	534	76.4	594	4	US-09-690-359-47
12	534	76.4	594	3	US-08-867-611-48
13	534	76.4	594	4	US-09-690-359-48
14	534	76.4	597	3	US-08-867-611-16
15	534	76.4	597	4	US-09-690-359-16
16	534	76.4	597	5	PCT-US92-06965A-21
17	534	76.4	599	3	US-08-867-611-18
18	534	76.4	599	4	US-09-690-359-18
19	534	76.4	599	5	PCT-US92-06965A-23
20	534	76.4	613	3	US-08-867-611-49
21	534	76.4	613	4	US-09-690-359-49
22	534	76.4	739	3	US-08-444-818-148
23	534	76.4	859	3	US-08-444-818-30
24	534	76.4	971	3	US-08-867-611-52
25	534	76.4	971	4	US-09-690-359-52
26	534	76.4	973	3	US-08-867-611-53
27	534	76.4	973	4	US-09-690-359-53

28 534 76.4 992 3 US-08-867-611-54 Sequence 54, Appl  
29 534 76.4 992 4 US-09-690-359-54 Sequence 54, Appl  
30 534 76.4 1021 1 US-07-910-760-12 Sequence 12, Appl  
31 534 76.4 1021 1 US-08-440-519-12 Sequence 12, Appl  
32 534 76.4 1021 4 US-08-440-549-12 Sequence 12, Appl  
33 534 76.4 2261 3 US-08-444-818-66 Sequence 66, Appl  
34 534 76.4 2436 3 US-08-444-818-75 Sequence 75, Appl  
35 534 76.4 2772 3 US-08-444-818-89 Sequence 89, Appl  
36 534 76.4 2894 2 US-08-466-975A-23 Sequence 23, Appl  
37 534 76.4 2894 2 US-08-391-671A-23 Sequence 23, Appl  
38 534 76.4 2894 3 US-08-467-902A-23 Sequence 23, Appl  
39 534 76.4 2894 3 US-09-275-265-23 Sequence 23, Appl  
40 534 76.4 2894 4 US-09-941-611-23 Sequence 23, Appl  
41 534 76.4 2955 2 US-08-443-260-3 Sequence 3, Appl  
42 534 76.4 2955 3 US-08-442-805A-3 Sequence 3, Appl  
43 534 76.4 2955 3 US-08-443-900A-3 Sequence 3, Appl  
44 534 76.4 2955 3 US-08-444-818-124 Sequence 124, App  
45 534 76.4 2955 3 US-08-249-843-3 Sequence 3, Appl

#### ALIGNMENTS

RESULT 1  
US-08-244-116B-17  
; Sequence 17, Application US/08244116B  
; Patent No. 5763159  
; GENERAL INFORMATION:  
; APPLICANT: Simmonds, Peter  
; APPLICANT: Chan, Shiu-Wan  
; APPLICANT: Yap, Peng L.  
; TITLE OF INVENTION: Hepatitis-C Virus Testing  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
; STREET: 1211 East Morehead Street  
; CITY: Charlotte  
; STATE: No. 5763159th Carolina  
; COUNTRY: United States  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0. Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244,116B  
; FILING DATE: 15-JUL-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/GB92/02143  
; FILING DATE: 20-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 1749-125  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 704-377-1561  
; TELEFAX: 704-334-2014  
; INFORMATION FOR SEQ ID NO: 17:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 128 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: Yes  
; FRAGMENT TYPE: internal  
; ORIGINAL SOURCE:  
; ORGANISM: Hepatitis-C virus  
US-08-244-116B-17

Query Match 81.8%; Score 572; DB 1; Length 128;



```

;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/483,695
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE: 18-MAR-1993
; APPLICATION NUMBER: FR 91 06 882
; FILING DATE: 06-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05286-0001-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 313 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-483-695-45

Query Match 76.4%; Score 534; DB 2; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHTPKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 178 ONEITLTHPTVKYIMTSCMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGRVLSGK 237

QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHOFKGVLGILQRAATQQAIVPIVT 120
Db 238 PALIPDREVLVYREFDEMECSQHLPIYIEQGMMLAEQFKKALGLLQTASRQAEVIAPAVE 297

QY 121 TNWQKLEAFWVKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 6
US-08-487-231-45
; Sequence 45, Application US/08487231
; Patent No. 5919454
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kresndorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,231
; FILING DATE: 07-JUNE-1995
;

;
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE: 18-MAR-1993
; APPLICATION NUMBER: FR 91 06 882
; FILING DATE: 06-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05286-0001-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 313 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-483-695-45

Query Match 76.4%; Score 534; DB 2; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHTPKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 178 ONEITLTHPTVKYIMTSCMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGRVLSGK 237

QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHOFKGVLGILQRAATQQAIVPIVT 120
Db 238 PALIPDREVLVYREFDEMECSQHLPIYIEQGMMLAEQFKKALGLLQTASRQAEVIAPAVE 297

QY 121 TNWQKLEAFWVKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 5
US-07-965-285-45
; Sequence 45, Application US/07965285
; Patent No. 587904
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kresndorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSEE: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
```

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/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA: US 07/965,285
/ FILING DATE: 18-MAR-1993
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: FR 91 06 882
/ FILING DATE: 06-JUN-1991
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Meyers, Kenneth J.
/ REGISTRATION NUMBER: 25,146
/ REFERENCE/DOCKET NUMBER: 05286-0001-02000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-408-4000
/ INFORMATION FOR SEQ ID NO: 45:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 313 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ US-08-487-231-45

Query Match 76.4%; Score 534; DB 2; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 178 ONEITLTHPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIVGRVLSGK 237

QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHOFKGVGLGLQORATQQQAVIEPIVT 120
Db 238 PALIPDREVLYREFDEMEECQHLPYIEQGMMLAEQFKALGLLOTASRQAEVIAPAVE 297

QY 121 TNWQKLEAFWHKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 7
US-09-201-912-45
/ Sequence 45, Application US/09201912
/ Patent No. 6210962
/ GENERAL INFORMATION:
/ APPLICANT: Brechot, Christian
/ APPLICANT: Kremendorf, Dina
/ APPLICANT: Porchon, Colette
/ TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
/ TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
/ TITLE OF INVENTION: Applications
/ NUMBER OF SEQUENCES: 46
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
/ ADDRESSEE: Dunner
/ STREET: 1300 I Street, N.W.
/ CITY: Washington
/ STATE: DC
/ COUNTRY: USA
/ ZIP: 20005-3315
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/201,912
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/965,285
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
```

```
/ NAME: Meyers, Kenneth J.
/ REGISTRATION NUMBER: 25,146
/ REFERENCE/DOCKET NUMBER: 05286-0001-00000
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 202-408-4000
/ TELEFAX: 202-408-4400
/ INFORMATION FOR SEQ ID NO: 45:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 313 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ US-09-201-912-45

Query Match 76.4%; Score 534; DB 3; Length 313;
Best Local Similarity 74.4%; Pred. No. 3.3e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 178 ONEITLTHPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIVGRVLSGK 237

QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHOFKGVGLGLQORATQQQAVIEPIVT 120
Db 238 PALIPDREVLYREFDEMEECQHLPYIEQGMMLAEQFKALGLLOTASRQAEVIAPAVE 297

QY 121 TNWQKLEAFWHKH 133
Db 298 TNWQKLETFWAKH 310

RESULT 8
US-08-444-818-68
/ Sequence 68, Application US/08444818
/ Patent No. 6150087
/ GENERAL INFORMATION:
/ APPLICANT: Chien, David Y.
/ APPLICANT: Rutter, William J.
/ TITLE OF INVENTION: NANEV Diagnostics and Vaccines
/ NUMBER OF SEQUENCES: 777
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Chiron Corporation
/ STREET: 4560 Horton Street
/ CITY: Emeryville
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94608-2916
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/444,818
/ FILING DATE:
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US/08/403,590
/ FILING DATE: 14-MAR-1995
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Harbin, Alisa A.
/ REGISTRATION NUMBER: 33,895
/ REFERENCE/DOCKET NUMBER: 0110.002
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (508)359-3876
/ TELEFAX: (508)359-3885
/ INFORMATION FOR SEQ ID NO: 68:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 382 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-444-818-68
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Query Match 76.4%; Score 534; DB 3; Length 382;  
Best Local Similarity 74.4%; Pred. No. 4.3e-54;  
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 QNEICLTHTPKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
DB 78 QNEITLTHPTVKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGRVLSK 137

QY 61 PAIVDPKEVLYQYDEMECSQAAPYIEQAQVIAHOFKGVGLGLQRTQQQAVIEPIVT 120  
DB 138 PAIIPDREVLRYREFDEMECSQHLPIYIEQGMMLAEQFKALGLLOTASQRAEVIAPAVQ 197

QY 121 TNWQKLEAFWHKH 133  
DB 198 TNWQKLETFWAKH 210

RESULT 9  
US-08-444-818-20  
; Sequence 20, Application US/08444818  
; Patent No. 6150087  
; GENERAL INFORMATION:  
; APPLICANT: Chien, David Y.  
; APPLICANT: Rutter, William J.  
; TITLE OF INVENTION: NANBV Diagnostics and Vaccines  
; NUMBER OF SEQUENCES: 777  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/444,818  
; FILING DATE:  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/403,590  
; FILING DATE: 14-MAR-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Harbin, Alisa A.  
; REGISTRATION NUMBER: 33,895  
; REFERENCE/DOCKET NUMBER: 0110.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (508)359-3876  
; TELEFAX: (508)359-3885  
; INFORMATION FOR SEQ ID NO: 20:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 460 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-444-818-20

Query Match 76.4%; Score 534; DB 3; Length 460;  
Best Local Similarity 74.4%; Pred. No. 5.5e-54;  
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 QNEICLTHTPKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
DB 162 QNEITLTHPTVKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGRVLSK 221

QY 61 PAIVDPKEVLYQYDEMECSQAAPYIEQAQVIAHOFKGVGLGLQRTQQQAVIEPIVT 120  
DB 222 PAIIPDREVLRYREFDEMECSQHLPIYIEQGMMLAEQFKALGLLOTASQRAEVIAPAVQ 281

QY 121 TNWQKLEAFWHKH 133  
DB 282 TNWQKLETFWAKH 294

RESULT 10  
US-08-867-611-47  
; Sequence 47, Application US/08867611  
; Patent No. 6172189  
; GENERAL INFORMATION:  
; APPLICANT: DEVARE, SUSHIL G  
; APPLICANT: DESAI, SURESH M  
; APPLICANT: CASEY, JAMES M  
; APPLICANT: DAILEY, STEPHEN H  
; APPLICANT: DAWSON, GEORGE J  
; APPLICANT: GUTIERREZ, ROBIN A  
; APPLICANT: LESNIEWSKI, RICHARD R  
; APPLICANT: STEWART, JAMES L  
; APPLICANT: RUPPRECHT, KEVIN R  
; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT  
; TITLE OF INVENTION: ANTIGENS  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ABBOTT LABORATORIES  
; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2  
; CITY: ABBOTT PARK  
; STATE: IL  
; COUNTRY: USA  
; ZIP: 60064-3500  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/867,611  
; FILING DATE: 02-JUN-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/646,757  
; FILING DATE:  
; APPLICATION NUMBER: US/08/179,896  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/572,822  
; FILING DATE: 24-AUG-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/614,069  
; FILING DATE: 07-NOV-1990  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/748,561  
; FILING DATE: 21-AUG-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/748,565  
; FILING DATE: 21-AUG-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/07/748,566  
; FILING DATE: 21-AUG-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: FOREMSKI, PRISCILLA E  
; REGISTRATION NUMBER: 33,207  
; REFERENCE/DOCKET NUMBER: 4834.US.P6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 708-937-6365  
; TELEFAX: 708-937-9556  
; INFORMATION FOR SEQ ID NO: 47:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 592 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-867-611-47



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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/748,561
; FILING DATE: 21-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/748,565
; FILING DATE: 21-AUG-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/748,566
; FILING DATE: 21-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: FOREMSKI, PRISCILLA E
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 4834.US.P6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-6365
; TELEFAX: 708-937-9556
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 594 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-867-611-48

Query Match 76.4%; Score 534; DB 3; Length 594;
Best Local Similarity 74.4%; Pred. No. 7.7e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHTPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 290 ONEITLTHPTVKYIMTCSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIVGRVLSCK 349

QY 61 PAIVDPKEVLYQOYDEMEECSQAAPYIEQAQVIAHOFKGVKVLGLLQRTQQQAIVIEPIVT 120
Db 350 PAIIPREVLYREFDEMEECQHLPYIEQGMMLAEQFKQKALGLLQRTASRQAEVIAPAVQ 409

QY 121 TNWQKLEAFWKKH 133
Db 410 TNWQKLETFWAKH 422

RESULT 13
US-09-690-359-48
; Sequence 48, Application US/09690359
; Patent No. 6593083
; GENERAL INFORMATION:
; APPLICANT: DEVARE, SUSHIL G
; CASEY, JAMES M
; DAILEY, STEPHEN H
; DAWSON, GEORGE J
; GUTIERREZ, ROBIN A
; LESNIEWSKI, RICHARD R
; RUPPRECHT, KEVIN R
; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ABBOTT LABORATORIES
; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2
; CITY: ABBOTT PARK
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/690,359

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; FILING DATE: 17-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/867,611
; FILING DATE: 02-JUN-1997
; APPLICATION NUMBER: US/08/646,757
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US/08/179,896
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 07/572,822
; FILING DATE: 24-AUG-1990
; APPLICATION NUMBER: US 07/614,069
; FILING DATE: 07-NOV-1990
; APPLICATION NUMBER: US 07/748,561
; FILING DATE: 21-AUG-1991
; APPLICATION NUMBER: US 07/748,565
; APPLICATION NUMBER: US 07/748,566
; FILING DATE: 21-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: FOREMSKI, PRISCILLA E
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 4834.US.P6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-6365
; TELEFAX: 708-937-9556
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 594 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 48:
US-09-690-359-48

Query Match 76.4%; Score 534; DB 4; Length 594;
Best Local Similarity 74.4%; Pred. No. 7.7e-54;
Matches 99; Conservative 12; Mismatches 22; Indels 0; Gaps 0;

QY 1 ONEICLTHTPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGK 60
Db 290 ONEITLTHPTVKYIMTCSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIVGRVLSCK 349

QY 61 PAIVDPKEVLYQOYDEMEECSQAAPYIEQAQVIAHOFKGVKVLGLLQRTQQQAIVIEPIVT 120
Db 350 PAIIPREVLYREFDEMEECQHLPYIEQGMMLAEQFKQKALGLLQRTASRQAEVIAPAVQ 409

QY 121 TNWQKLEAFWKKH 133
Db 410 TNWQKLETFWAKH 422

RESULT 14
US-08-867-611-16
; Sequence 16, Application US/08867611
; Patent No. 6172189
; GENERAL INFORMATION:
; APPLICANT: DEVARE, SUSHIL G
; APPLICANT: DESAI, SURESH M
; APPLICANT: CASEY, JAMES M
; APPLICANT: DAILEY, STEPHEN H
; APPLICANT: DAWSON, GEORGE J
; APPLICANT: GUTIERREZ, ROBIN A
; APPLICANT: LESNIEWSKI, RICHARD R
; APPLICANT: STEWART, JAMES L
; APPLICANT: RUPPRECHT, KEVIN R
; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT ANTIGENS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ABBOTT LABORATORIES
; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2

```

CITY: ABBOTT PARK  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
CURRENT APPLICATION DATA:  
PATENT IN RELEASE #1.0, Version #1.25  
APPLICATION NUMBER: US/08/867,611  
FILING DATE: 02-JUN-1997  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/646,757  
FILING DATE:  
APPLICATION NUMBER: US/08/179,896  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/572,822  
FILING DATE: 24-AUG-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/614,069  
FILING DATE: 07-NOV-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/748,561  
FILING DATE: 21-AUG-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/748,565  
FILING DATE: 21-AUG-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/748,566  
FILING DATE: 21-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: POREMSKI, PRISCILLA E  
REGISTRATION NUMBER: 33,207  
REFERENCE/DOCKET NUMBER: 4834.US.P6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 708-937-6365  
TELEFAX: 708-937-9556  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 597 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-867-611-16

DAILEY, STEPHEN H  
DAWSON, GEORGE J  
GUTIERREZ, ROBIN A  
LESNIEWSKI, RICHARD R  
STEWART, JAMES L  
RUPPRECHT, KEVIN R  
TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ABBOTT LABORATORIES  
STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2  
CITY: ABBOTT PARK  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/690,359  
FILING DATE: 17-Oct-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/867,611  
FILING DATE: 02-JUN-1997  
APPLICATION NUMBER: US/08/646,757  
FILING DATE: <Unknown>  
APPLICATION NUMBER: US/08/179,896  
FILING DATE: <Unknown>  
APPLICATION NUMBER: US 07/572,822  
FILING DATE: 24-AUG-1990  
APPLICATION NUMBER: US 07/614,069  
FILING DATE: 07-NOV-1990  
APPLICATION NUMBER: US 07/748,561  
FILING DATE: 21-AUG-1991  
APPLICATION NUMBER: US 07/748,565  
FILING DATE: 21-AUG-1991  
APPLICATION NUMBER: US 07/748,566  
FILING DATE: 21-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: POREMSKI, PRISCILLA E  
REGISTRATION NUMBER: 33,207  
REFERENCE/DOCKET NUMBER: 4834.US.P6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 708-937-6365  
TELEFAX: 708-937-9556  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 597 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
US-09-690-359-16  
Query Match 76.4%; Score 534; DB 4; Length 597;  
Best Local Similarity 74.4%; Pred. No. 7.8e-54;  
Matches 99; Conservative 12; Mismatches 22; Indels 0;  
Qy 1 ONEICLTHTPTKIKMACMSADLEVTSTWVLGGVLAALAAAYCLSGVGVVIGH  
Db 288 QNEITITHTPTKIKMTCSADLEVTSTWVLGGVLAALAAAYCLSGVGVVIGH  
Qy 61 PAIVPDKVLYQOYDEMECSQAAPYIEQAOVIAHQFKGLGLLQRLQATQQQAV  
Db 348 PAIIPREVLYREFDEMECSQHLPIEIOGMMAEQFKOKAIGLLQTLQATSRQAV  
Qy 121 TNWQKLEAFWHKH 133  
Db 408 TNWQKLETFWAKH 420

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Job time : 23 secs

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OM protein - protein search, using sw model

Run on: February 25, 2004, 01:48:29 ; Search time 33 Seconds

(without alignments)  
851.012 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 809742 seqs, 211153259 residues

Total number of hits satisfying chosen parameters: 809742

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published Applications AA:\*  
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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pcp.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US05\_NEW\_PUB.pcp.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	699	100.0	133	10	US-09-899-046-36
2	699	100.0	133	10	US-09-878-281-36
3	691	98.9	133	10	US-09-899-046-38
4	691	98.9	133	10	US-09-899-046-40
5	691	98.9	133	10	US-09-878-281-38
6	691	98.9	133	10	US-09-878-281-40
7	691	98.9	209	10	US-09-899-046-223
8	691	98.9	209	10	US-09-878-281-223
9	672	96.1	133	10	US-09-899-046-32
10	672	96.1	133	10	US-09-899-046-34
11	672	96.1	133	10	US-09-878-281-32
12	672	96.1	133	10	US-09-878-281-34
13	572	81.8	128	14	US-09-396-964-17
14	539	77.1	3011	9	US-09-742-659-4
15	539	77.1	3011	10	US-09-891-894-3

16	539	77.1	3011	14	US-10-184-150-3	Sequence 3, Appli
17	539	77.1	3011	15	US-10-328-997-3	Sequence 3, Appli
18	539	77.1	3012	9	US-09-238-076-2	Sequence 2, Appli
19	539	77.1	3012	10	US-09-995-937-2	Sequence 2, Appli
20	539	77.1	3012	10	US-09-917-563-2	Sequence 2, Appli
21	534	76.4	2894	9	US-09-941-611-23	Sequence 23, Appli
22	534	76.4	2894	14	US-10-044-995-23	Sequence 23, Appli
23	534	76.4	3011	9	US-09-916-359-2	Sequence 2, Appli
24	534	76.4	3011	9	US-09-238-076-20	Sequence 20, Appli
25	534	76.4	3011	9	US-09-952-572-9	Sequence 9, Appli
26	534	76.4	3011	9	US-09-929-955-1	Sequence 1, Appli
27	534	76.4	3011	9	US-09-747-419-20	Sequence 20, Appli
28	534	76.4	3011	10	US-09-995-937-20	Sequence 20, Appli
29	534	76.4	3011	10	US-09-917-563-20	Sequence 20, Appli
30	534	76.4	3011	13	US-10-104-966-1	Sequence 1, Appli
31	534	76.4	3011	14	US-10-259-275-20	Sequence 20, Appli
32	534	76.4	3011	14	US-10-232-643-6	Sequence 6, Appli
33	492	70.4	1692	10	US-09-919-901-4	Sequence 4, Appli
34	492	70.4	1692	10	US-09-919-901-11	Sequence 11, Appli
35	492	70.4	1692	10	US-09-919-901-18	Sequence 18, Appli
36	492	70.4	1692	14	US-10-191-966-4	Sequence 4, Appli
37	492	70.4	1692	14	US-10-191-966-11	Sequence 11, Appli
38	492	70.4	1692	14	US-10-191-966-18	Sequence 18, Appli
39	492	70.4	2201	13	US-10-085-476-2	Sequence 2, Appli
40	492	70.4	2307	10	US-09-919-901-2	Sequence 2, Appli
41	492	70.4	2307	10	US-09-919-901-9	Sequence 9, Appli
42	492	70.4	2307	10	US-09-919-901-16	Sequence 16, Appli
43	492	70.4	2307	14	US-10-191-966-2	Sequence 2, Appli
44	492	70.4	2307	14	US-10-191-966-9	Sequence 9, Appli
45	492	70.4	2307	14	US-10-191-966-16	Sequence 16, Appli

#### ALIGNMENTS

#### RESULT 1

US-09-899-046-36  
; Sequence 36, Application US/09899046  
; Publication No. US20030008274A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/899,046  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/362,455  
; FILING DATE:  
; INFORMATION FOR SEQ ID NO: 36:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-899-046-36

Query Match 100.0%; Score 699; DB 10; Length 133;

Best Local Similarity 100.0%; Pred. No. 4.4e-72;

Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QNEICLTHPTIKYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVWVGHIEGK 60

DB 1 QNEICLTHPTIKYIMACMSADLEVTTSFWLLGGVLAALAAAYCLSVGCVWVGHIEGK 60

QY 61 PAIVPDKVLYQQYDEMEECSSAARYIEQAQVIAHQFKVGLGLQRAVTEPTVT 120

Db 61 PAIVDPKEVLYQQYDEMECSQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120  
QY 121 TNWQKLEAFWHKH 133  
Db 121 TNWQKLEAFWHKH 133

## RESULT 2

US-09-878-281-36  
; Sequence 36, Application US/09878281  
; Publication No. US20030032005A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; FILING DATE:  
; PRIOR APPLICATION NUMBER: US/09/878,281  
; APPLICATION DATA:  
; FILING DATE:  
; APPLICATION NUMBER: 08/362,455  
; INFORMATION FOR SEQ ID NO: 36:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-878-281-36

Query Match 100.0%; Score 699; DB 10; Length 133;  
Best Local Similarity 100.0%; Pred. No. 4.4e-72;  
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ONEICLTHPTIKYINACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
Db 1 ONEICLTHPTIKYINACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
QY 61 PAIVDPKEVLYQQYDEMECSQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120  
Db 61 PAIVDPKEVLYQQYDEMECSQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120  
QY 121 TNWQKLEAFWHKH 133  
Db 121 TNWQKLEAFWHKH 133

## RESULT 3

US-09-899-046-38  
; Sequence 38, Application US/09899046  
; Publication No. US2003008274A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; FILING DATE:  
; PRIOR APPLICATION NUMBER: US/09/899,046  
; APPLICATION DATA:  
; FILING DATE:  
; APPLICATION NUMBER: 08/362,455  
; INFORMATION FOR SEQ ID NO: 38:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-899-046-38

Query Match 98.9%; Score 691; DB 10; Length 133;  
Best Local Similarity 99.2%; Pred. No. 3.6e-71;  
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 ONEICLTHPTIKYINACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
Db 1 ONEICLTHPTIKYINACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
QY 61 PAIVDPKEVLYQQYDEMECSQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120  
Db 61 PAIVDPKEVLYQQYDEMECSQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120  
QY 121 TNWQKLEAFWHKH 133  
Db 121 TNWQKLEAFWHKH 133

## RESULT 4

US-09-899-046-40  
; Sequence 40, Application US/09899046  
; Publication No. US2003008274A1  
; GENERAL INFORMATION:  
; APPLICANT:  
; TITLE OF INVENTION: New sequences of hepatitis C virus  
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
; NUMBER OF SEQUENCES: 270  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: IBM PC compatible  
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
; CURRENT APPLICATION DATA:  
; FILING DATE:  
; PRIOR APPLICATION NUMBER: US/09/899,046  
; APPLICATION DATA:  
; FILING DATE:  
; APPLICATION NUMBER: 08/362,455  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 133 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-899-046-40

Query Match 98.9%; Score 691; DB 10; Length 133;  
Best Local Similarity 99.2%; Pred. No. 3.6e-71;  
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 ONEICLTHPTIKYINACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
Db 1 ONEICLTHPTIKYINACMSADLEVTSTWVLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
QY 61 PAIVDPKEVLYQQYDEMECSQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120  
Db 61 PAIVDPKEVLYQQYDEMECSQAAPYIEQAQVIAHQFKGKVLGLLQORATQQQAVIEPIVT 120  
QY 121 TNWQKLEAFWHKH 133  
Db 121 TNWQKLEAFWHKH 133

## RESULT 5

US-09-878-281-38  
; Sequence 38, Application US/09878281  
; Publication No. US20030032005A1





APPLICATION NUMBER: US/09/878,281  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 223:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 209 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-878-281-223

Query Match 98.9%; Score 691; DB 10; Length 209;  
Best Local Similarity 99.2%; Pred. No. 6.5e-71;  
Matches 132; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QNEICLTHTPIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
DB 77 QNEICLTHTPIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 136  
QY 61 PAIVDPKEVLYQYDEMEECQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120  
DB 137 PAIVDPKEVLYQYDEMEECQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 196  
QY 121 TNWQKLEAFWKKH 133  
DB 197 TNWQKLEAFWKKH 209

## RESULT 9

US-09-899-046-32  
Sequence 32, Application US/09899046  
Publication No. US2003008274A1  
GENERAL INFORMATION:

APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/899,046  
FILING DATE:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 32:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 133 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-899-046-32

Query Match 96.1%; Score 672; DB 10; Length 133;  
Best Local Similarity 93.2%; Pred. No. 5.4e-69;  
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNEICLTHTPIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
DB 1 QNEICLTHTPIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
QY 61 PAIVDPKEVLYQYDEMEECQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120  
DB 61 PAIVDPKEVLYQYDEMEECQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120  
QY 121 TNWQKLEAFWKKH 133  
DB 121 SNWQKLETFWKKH 133

## RESULT 10

US-09-899-046-34  
Sequence 34, Application US/09899046  
Publication No. US2003008274A1  
GENERAL INFORMATION:

APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/899,046  
FILING DATE:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 34:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 133 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-899-046-34

Query Match 96.1%; Score 672; DB 10; Length 133;

Best Local Similarity 93.2%; Pred. No. 5.4e-69;  
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 QNEICLTHTPIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
DB 1 QNEICLTHTPIKYIMACMSADLEVTTSWLLGGVLAALAAAYCLSVGCVVIVGHIELGK 60  
QY 61 PAIVDPKEVLYQYDEMEECQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120  
DB 61 PAIVDPKEVLYQYDEMEECQAAPYIEQAQVIAHQFKVGLLQRTQQQAVIEPIVT 120  
QY 121 TNWQKLEAFWKKH 133  
DB 121 SNWQKLETFWKKH 133

## RESULT 11

US-09-878-281-32  
Sequence 32, Application US/09878281  
Publication No. US20030032005A1  
GENERAL INFORMATION:

APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/878,281  
FILING DATE:

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 32:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 133 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-09-878-281-32

Query Match 96.1%; Score 672; DB 10; Length 133;  
Best Local Similarity 93.2%; Pred. No. 5.4e-69;  
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;  
QY 1 QNEICLTHPTKTYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGGK 60  
DB 1 QNEICLTHPTKTYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGGK 60  
QY 61 PALVPDKEVLYQYDEMECSQAAPYIEQAQVIAHQFKGVLGLLQORATQQQAVIEPIVT 120  
DB 61 PALVPDKEVLYQYDEMECSQAAPYIEQAQVIAHQFKGVLGLLQORATQQQAVIEPIVT 120  
QY 121 TNQKLEAFWHKH 133  
DB 121 SNQKLETFWHKH 133

RESULT 12

US-09-878-281-34  
Sequence 34, Application US/09878281  
Publication No. US20030032005A1  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/878,281  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/362,455  
FILING DATE:  
INFORMATION FOR SEQ ID NO: 34:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 133 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-878-281-34

Query Match 96.1%; Score 672; DB 10; Length 133;  
Best Local Similarity 93.2%; Pred. No. 5.4e-69;  
Matches 124; Conservative 6; Mismatches 3; Indels 0; Gaps 0;  
QY 1 QNEICLTHPTKTYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGGK 60  
DB 1 QNEICLTHPTKTYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGGK 60  
QY 61 PALVPDKEVLYQYDEMECSQAAPYIEQAQVIAHQFKGVLGLLQORATQQQAVIEPIVT 120  
DB 61 PALVPDKEVLYQYDEMECSQAAPYIEQAQVIAHQFKGVLGLLQORATQQQAVIEPIVT 120  
QY 121 TNQKLEAFWHKH 133  
DB 121 SNQKLETFWHKH 133

RESULT 13

US-10-396-964-17  
Sequence 17, Application US/10396964  
Publication No. US20030198946A1  
GENERAL INFORMATION:  
APPLICANT: Simmonds, Peter  
APPLICANT: Chan, Shiu-Wan  
APPLICANT: Yap, Peng L.  
TITLE OF INVENTION: Hepatitis-C Virus Testing

NUMBER OF SEQUENCES: 53  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Bell, Seitzer, Park & Gibson, P.A.  
STREET: 1211 East Morehead Street  
CITY: Charlotte  
STATE: No. US20030198946A1th Carolina  
COUNTRY: United States  
ZIP: 28234  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/396,964  
FILING DATE: 23-MARCH-2003  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/244,116B  
FILING DATE: 15-JUL-1994  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB92/02143  
FILING DATE: 20-NOV-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Sibley, Kenneth D.  
REGISTRATION NUMBER: 31,665  
REFERENCE/DOCKET NUMBER: 1749-125  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 704-377-1561  
TELEFAX: 704-334-2014  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 128 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
HYPOTHETICAL: yes  
FRAGMENT TYPE: internal  
ORIGINAL SOURCE:  
ORGANISM: Hepatitis-C virus  
US-10-396-964-17

Query Match 81.8%; Score 572; DB 14; Length 128;  
Best Local Similarity 94.9%; Pred. No. 1.5e-57;  
Matches 111; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 8 HPITKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGGKPAIVPDK 67  
DB 2 HPXKTYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIVGHIELGGKPAIVPDK 61  
QY 68 EVLYQYDEMECSQAAPYIEQAQVIAHQFKGVLGLLQORATQQQAVIEPIVTNNQ 124  
DB 62 EVLYQYDEMECSQAAPYIEQAQVIAHQFKGVLGLLQORATQQQAVIEPIVATNNQ 118  
RESULT 14  
US-09-742-659-4  
Sequence 4, Application US/09742659  
Patent No. US20010034019A1  
GENERAL INFORMATION:  
APPLICANT: Hong, Zhi  
APPLICANT: Butkiewicz, Nancy J.  
APPLICANT: Zhong, Weidong  
APPLICANT: Ingravallo, Paul  
APPLICANT: Wright-Minogue, Jacquelyn  
APPLICANT: Lau, Johnson Y.  
APPLICANT: Lemon, Stanley M.  
TITLE OF INVENTION: Chimeric HCV/GBV-B viruses  
FILE REFERENCE: ID01116  
CURRENT APPLICATION NUMBER: US/09/742,659  
CURRENT FILING DATE: 2000-12-21

; PRIOR APPLICATION NUMBER: US 60/171,469  
; PRIOR FILING DATE: 1999-12-22  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 3011  
; TYPE: PRT  
; ORGANISM: Hepatitis C virus  
US-09-742-659-4

Query Match 77.1%; Score 539; DB 9; Length 3011;  
Best Local Similarity 75.9%; Pred. No. 5.5e-52;  
Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;  
QY 1 ONEICLTHTPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIIVGHIELGSK 60  
Db 1632 QNEVLTHTPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIIVGRIVLSGK 1691  
QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFGKVLGGLLQRTAQQAQVIEPIVT 120  
Db 1692 PAIIPDREVLVYQEFDEMECSQHLPIYIEQGMMLAEQFKQKALGGLLQTSRQAEVITPAVQ 1751  
QY 121 TNWQKLEAFWHKH 133  
Db 1752 TNWQKLEVFVAKH 1764

RESULT 15  
US-09-891-894-3  
; Sequence 3, Application US/09891894  
; Publication NO. US20030013081A1  
; GENERAL INFORMATION:  
; APPLICANT: Olson, William  
; APPLICANT: Maddon, Paul  
; TITLE OF INVENTION: USES OF DC-SIGN AND DC-SIGNR FOR INHIBITING HEPATITIS C VIRUS INF  
; FILE REFERENCE: 2048/64896/JPW/SHS  
; CURRENT APPLICATION NUMBER: US/09/891,894  
; CURRENT FILING DATE: 2001-06-26  
; NUMBER OF SEQ ID NOS: 3  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 3  
; LENGTH: 3011  
; TYPE: PRT  
; ORGANISM: hepatitis c virus  
US-09-891-894-3

Query Match 77.1%; Score 539; DB 10; Length 3011;  
Best Local Similarity 75.9%; Pred. No. 5.5e-52;  
Matches 101; Conservative 10; Mismatches 22; Indels 0; Gaps 0;  
QY 1 ONEICLTHTPTKYIMACMSADLEVTSTWVLGGVLAALAAAYCLSVGCVVIIVGHIELGSK 60  
Db 1632 QNEVLTHTPTKYIMTCMSADLEVTSTWVLGGVLAALAAAYCLSTGCVVIIVGRIVLSGK 1691  
QY 61 PAIVDPKEVLYQYDEMEECSQAAPYIEQAQVIAHQFGKVLGGLLQRTAQQAQVIEPIVT 120  
Db 1692 PAIIPDREVLVYQEFDEMECSQHLPIYIEQGMMLAEQFKQKALGGLLQTSRQAEVITPAVQ 1751  
QY 121 TNWQKLEAFWHKH 133  
Db 1752 TNWQKLEVFVAKH 1764

Search completed: February 25, 2004, 01:53:58  
Job time : 34 secs

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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 27, 2004, 21:45:32 ; Search time 64 Seconds  
(without alignments)  
1153.257 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEICLTHPIKYMCMWSA.....VIEPIVTTNQKLEAFWHKH 133

Scoring table: BLOSUM62

Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Q=/cgn2\_1/USPTO\_spool/US09638693/runat\_24022004\_135619\_6468/app\_query.fasta\_1.327  
-DB=Issued Patents NA -QEXT=fastcap -SUFFIX=rni -MINMATCH=0.1 -LOOPCL=0  
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi  
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFWT=pct -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09638693 @CGN 1.1.44 @runat\_24022004\_135619\_6468 -NCPU=6 -ICPU=3  
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-DEV\_TIMEOUT=120 -WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA:  
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2: /cgn2\_6/ptodata/2/ina/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/2/ina/6A.COMB.seq:\*  
4: /cgn2\_6/ptodata/2/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/2/ina/PCTUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	572	81.8	367	1	US-08-244-116B-16
2	539	77.1	9646	3	US-08-811-566-1
3	539	77.1	9646	4	US-09-034-756-1
4	539	77.1	12980	3	US-08-811-566-5
5	539	77.1	12980	4	US-09-034-756-5
6	534	76.4	943	2	US-08-483-695-43
7	534	76.4	943	2	US-07-965-285-43
8	534	76.4	943	2	US-08-487-231-43
9	534	76.4	943	3	US-09-201-912-43
10	534	76.4	1310	3	US-08-444-818-67
11	534	76.4	1382	3	US-08-444-818-19
12	534	76.4	1414	3	US-08-867-611-51

13	534	76.4	1414	4	US-09-690-359-51	Sequence 51, Appl
14	534	76.4	1420	3	US-08-867-611-57	Sequence 57, Appl
15	534	76.4	1420	3	US-09-690-359-57	Sequence 57, Appl
16	534	76.4	1791	3	US-08-867-611-15	Sequence 15, Appl
17	534	76.4	1791	4	US-09-690-359-15	Sequence 15, Appl
18	534	76.4	1791	5	PCT-US92-06965A-20	Sequence 20, Appl
19	534	76.4	1797	3	US-08-867-611-17	Sequence 17, Appl
20	534	76.4	1797	4	US-09-690-359-17	Sequence 17, Appl
21	534	76.4	1797	5	PCT-US92-06965A-22	Sequence 22, Appl
22	534	76.4	2219	3	US-08-444-818-147	Sequence 147, Appl
23	534	76.4	2579	3	US-08-444-818-29	Sequence 29, Appl
24	534	76.4	3075	1	US-07-910-760-11	Sequence 11, Appl
25	534	76.4	3075	1	US-08-440-519-11	Sequence 11, Appl
26	534	76.4	3075	4	US-08-440-519-11	Sequence 11, Appl
27	534	76.4	6785	3	US-08-444-818-65	Sequence 65, Appl
28	534	76.4	7310	3	US-08-444-818-74	Sequence 74, Appl
29	534	76.4	8316	3	US-08-444-818-88	Sequence 88, Appl
30	534	76.4	8987	3	US-08-444-818-137	Sequence 137, Appl
31	534	76.4	9185	3	US-08-444-818-122	Sequence 122, Appl
32	534	76.4	9185	3	US-08-444-818-123	Sequence 123, Appl
33	534	76.4	9379	3	US-08-444-818-176	Sequence 176, Appl
34	534	76.4	9379	3	US-09-388-874-1	Sequence 1, Appl
35	534	76.4	9379	4	US-09-916-359-1	Sequence 1, Appl
36	534	76.4	9401	1	US-07-910-760-9	Sequence 9, Appl
37	534	76.4	9401	1	US-08-440-519-9	Sequence 9, Appl
38	534	76.4	9401	2	US-08-432-693-1	Sequence 9, Appl
39	534	76.4	9401	4	US-08-440-519-9	Sequence 9, Appl
40	534	76.4	9401	4	US-08-823-895A-25	Sequence 25, Appl
41	534	76.4	9401	5	PCT-US91-02225-9	Sequence 9, Appl
42	534	76.4	9416	3	US-08-811-566-19	Sequence 19, Appl
43	534	76.4	9416	4	US-09-034-756-19	Sequence 19, Appl
44	534	76.4	9416	4	US-08-823-895A-26	Sequence 26, Appl
45	534	76.4	9416	4	US-10-104-966-13	Sequence 13, Appl

#### ALIGNMENTS

RESULT 1  
US-08-244-116B-16  
; Sequence 16, Application US/08244116B  
; Patent No. 5763159  
; GENERAL INFORMATION:  
; APPLICANT: Simmonds, Peter  
; APPLICANT: Chan, Shiu-Wan  
; TITLE OF INVENTION: Hepatitis-C Virus Testing  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.  
; STREET: 1211 East Morehead Street  
; CITY: Charlotte  
; STATE: No. 5763159th Carolina  
; COUNTRY: United States  
; ZIP: 28234  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0. Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/244,116B  
; FILING DATE: 15-JUL-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/GB92/02143  
; FILING DATE: 20-NOV-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sibley, Kenneth D.  
; REGISTRATION NUMBER: 31,665  
; REFERENCE/DOCKET NUMBER: 1749-125  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 704-377-1561  
; TELEFAX: 704-334-2014

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; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 367 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: cDNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
;   ORGANISM: Hepatitis-C virus
;
US-08-244-116B-16

Alignment Scores:
Pred. No.: 3,316-64 Length: 367
Score: 572.00 Matches: 111
Percent Similarity: 94.87% Conservative: 0
Best Local Similarity: 94.87% Mismatches: 6
Query Match: 81.83% Indels: 0
DB: 1 Gaps: 0

US-09-638-693-36 (1-133) x US-08-244-116B-16 (1-367)
QY 8 HisProIleThrLysTyrIleMetAlaCysMetSerAlaAspLeuGluValThrThrSer 27
Db 5 CACCCYRUCRCAAAUACVCAUGGCAUGAUGCAGUCUGAUGAUAACACCACG 64
QY 28 ThrTrpValLeuLeuGlyValLeuAlaAlaLeuAlaAlaTyrCysLeuSerValGly 47
Db 65 ACCUGGUGUGUCUUGAGGUGUCUGCGKGCUCUAGCGGCUUACUGUCUGACGUCGC 124
QY 48 CysValValIleValGlyHisIleGluLeuGlyGlyLeuProAlaIleValProAspLys 67
Db 125 UCGUGUGAUGUGGUGCAUUGAGCUGGUGGCGGACCGGCMUCGUUCCAGACAR 184
QY 68 GluValLeuTyrGlnGlnTyrAspGluMetGluGluCysSerGlnAlaAlaProTyrIle 87
Db 185 GARGUGUGUAUCAAUACCAUGAUGAGAGGAGUGUCGCAAGCYGCCCAUAUAC 244
QY 88 GluGlnAlaGlnValIleAlaHisGlnPheLysGlyValLeuGlyLeuLeuGlnArg 107
Db 245 GAACAAGCUCARGUAUAGCCACCAUGAUGAAGGAGAAAGUCUUGGUGUGCAGCGR 304
QY 108 AlaThrGlnGlnAlaValIleGluProIleValThrAsnTrpGln 124
Db 305 GCCACCCACACAGCUGUYAUGAGCCMAUGAUGCUACCAUGGGA 355

RESULT 2
US-08-811-566-1
; Sequence 1, Application US/08811566
; Patent No. 6127116
; GENERAL INFORMATION:
; APPLICANT: Rice, Charles et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/811,566
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1113-1-006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 9646 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: cDNA
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
;   US-08-811-566-1
Alignment Scores:
Pred. No.: 4,978-58 Length: 9646
Score: 539.00 Matches: 101
Percent Similarity: 83.46% Conservative: 10
Best Local Similarity: 75.94% Mismatches: 22
Query Match: 77.11% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-811-566-1 (1-9646)
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 5235 CAGATGAAGTCACCTCGACGCCCAATCACCATAATACATCATGACATGTCGCGC 5294
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaAlaLeuAla 40
Db 5295 GACCTGGAGGTCGTACACGAGCACCTCGTGGTGGTGGTGGTGGTGGTGGTGGTGG 5354
QY 41 AlaTyrCysLeuSerValGlyCysValIleValGlyHisIleGluLeuGlyGlyLys 60
Db 5355 GCGTATTCCTGTCACAGGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 5414
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80
Db 5415 CCGCAATATACCTCGACAGGAGGTTCTCTACCAAGGAGTTCGATGAGATGCAAGAGTGC 5474
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 5475 TCTCAGCACTTACCGTACATCGACGAGGAGGATGATGCTCGCTGAGCAGTTCGAAGCAGAG 5534
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 5535 GCCCTCGGCTCTCTGACAGCCGCTCCGCCCAAGCAGAGGATTCACCCCTGCTGCTCCAG 5594
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 5595 ACCAACTGCCAGAACTCGAGGTCTCTCTGGCGGAGACAC 5633

RESULT 3
US-09-034-756-1
; Sequence 1, Application US/09034756
; Patent No. 6392028
; GENERAL INFORMATION:
; APPLICANT: Rice, Charles et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HOWELL & HAERKAMP, L.C.
; STREET: 7733 FORSYTH BLVD., SUITE 1400
; CITY: ST. LOUIS
; STATE: MO
; COUNTRY: USA
; ZIP: 63105
; COMPUTER READABLE FORM:
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; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/034,756
; FILING DATE: 04-May-1998
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: HOLLAND, DONALD R.
; REGISTRATION NUMBER: 35,197
; REFERENCE/DOCKET NUMBER: 6029-4831
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 314-727-5188
; TELEFAX: 314-727-6092
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9646 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-034-756-1

Alignment Scores:
Pred. No.: 4,976-58 Length: 9646
Score: 539.00 Matches: 101
Percent Similarity: 83.46% Conservative: 10
Best Local Similarity: 75.94% Mismatches: 22
Query Match: 77.11% Indels: 0
DB: 4 Gaps: 0

US-09-638-693-36 (1-133) x US-09-034-756-1 (1-9646)
QY 1 GlnAenGluileCysLeuThrHisProileThrLysTyrIleMetAlaCysMetSerAla 20
Db 5235 CAGATGAAGTCACCTGACGACCCATCACCATAATACATCATGATGTCGGCC 5294
QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 5295 GACCTGGAGTGTCTCACGACACCTGGTGTCTGTGGCGGCTCTGGCTCTGGCC 5354
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60
Db 5355 GCGTATTGCTGTCAACAGGCTGCTGTGTCTATAGTGGCGAGGATTGTCTTGTCCGGGAG 5414
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluCys 80
Db 5415 CCGGCAATTATACCTGACAGGAGTGTCTTACCAAGGAGTTCGATGAGATGGAAGTGC 5474
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 5475 TCTCAGCACTTACCGTACATCGACGAGGATGCTCGCTGAGCAGTTCAAGCAGAAG 5534
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 5535 GCCCTCGGCGCTCTGCAGACCGCTCCCGCCCAAGCAGAGGTTATCACCCCTGCTGCCAG 5594
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 5595 ACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCAC 5633

RESULT 4
US-08-811-566-5
; Sequence 5, Application US/08811566
; Patent No. 6127116
; GENERAL INFORMATION:
; APPLICANT: Rice, Charles et al.
; TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C
; TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF
;
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
; STREET: Floor
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/811,566
; FILING DATE: 03-MAR-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1113-1-006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12980 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-811-566-5

Alignment Scores:
Pred. No.: 7,58-58 Length: 12980
Score: 539.00 Matches: 101
Percent Similarity: 83.46% Conservative: 10
Best Local Similarity: 75.94% Mismatches: 22
Query Match: 77.11% Indels: 0
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-811-566-5 (1-12980)
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Db 5235 CAGATGAAGTCACCTGACGACCCATCACCATAATACATCATGATGTCGGCC 5294
QY 21 AspLeuGluValThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 5295 GACCTGGAGTGTCTCACGACACCTGGTGTCTGTGGCGGCTCTGGCTCTGGCC 5354
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60
Db 5355 GCGTATTGCTGTCAACAGGCTGCTGTGTCTATAGTGGCGAGGATTGTCTTGTCCGGGAG 5414
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluCys 80
Db 5415 CCGGCAATTATACCTGACAGGAGTGTCTTACCAAGGAGTTCGATGAGATGGAAGTGC 5474
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheLysGlyLys 100
Db 5475 TCTCAGCACTTACCGTACATCGACGAGGATGCTCGCTGAGCAGTTCAAGCAGAAG 5534
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120
Db 5535 GCCCTCGGCGCTCTGCAGACCGCTCCCGCCCAAGCAGAGGTTATCACCCCTGCTGCCAG 5594
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 5595 ACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCAC 5633
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Db 534 CAGATGAATCAACCTCGACGACCCAGTCCACCAATACATCATGATCGATCGGCC 593
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 594 GACCTGGAGTCTCAGACACCTGGTGTCTGTTGGCGGCTCTGCTGCTGTTGGCC 653
QY 41 AlaTyrCysLeuSerValGlyCysValValLeuValGlyHisLeuGluGlyGlyLys 60
Db 654 GCGTATTGCTGTCAACAGGCTCGTGTGTATAGTGGCAGGCTGCTGTGTCGGGAAG 713
QY 61 ProAlaLeuValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys 80
Db 714 CCGGCAATCATCTGACAGGGAAGTCTTACCGAGAGTTCATGAGATGGAAGAGTGC 773
QY 81 SerGlnAlaAlaProTyrTrpLeuGlnAlaGlnValLeuAlaHisGlnPhelysGlyLys 100
Db 774 TCTCAGCACTTACCGTACATCGAGCAGGATGATGCTCGCCGAGAGTTTCAAGCAGAAG 833
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeuGluProLeuValThr 120
Db 834 GCGCTGGGCTCTCGCAGACCGGCTCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAG 893
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 894 ACCAACTGGCAAAACTCGAGACCTTCTCGGCGAAGCAT 932
RESULT 7
US-07-965-285-43
; Sequence 43, Application US/07965285
; Patent No. 5879904
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kremendorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSER: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/965,285
; FILING DATE: 18-MAR-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 91 06 882
; FILING DATE: 06-JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Meyers, Kenneth J.
; REGISTRATION NUMBER: 25,146
; REFERENCE/DOCKET NUMBER: 05286-0001-00000
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-408-4000
; TELEFAX: 202-408-4400
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 943 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Other
; DESCRIPTION: cDNA to genomic RNA
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US-07-965-285-43
Alignment Scores:
Pred. No.: 8,56e-59 Length: 943
Score: 534.00 Matches: 99
Percent Similarity: 83.46% Conservative: 12
Best Local Similarity: 74.44% Mismatches: 22
Query Match: 76.39% Indels: 0
DB: 2 Gaps: 0
US-09-638-693-36 (1-133) x US-07-965-285-43 (1-943)
QY 1 GlnAsnGluLeuCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20
Db 534 CAGATGAATCAACCTCGACGACCCAGTCCACCAATACATCATGATCGATCGGCC 593
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyGlyValLeuAlaLeuAla 40
Db 594 GACCTGGAGTCTCAGACACCTGGTGTCTGTTGGCGGCTCTGCTGCTGTTGGCC 653
QY 41 AlaTyrCysLeuSerValGlyCysValValLeuValGlyHisLeuGluGlyGlyLys 60
Db 654 GCGTATTGCTGTCAACAGGCTCGTGTGTATAGTGGCAGGCTGCTGTGTCGGGAAG 713
QY 61 ProAlaLeuValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys 80
Db 714 CCGGCAATCATCTGACAGGGAAGTCTTACCGAGAGTTCATGAGATGGAAGAGTGC 773
QY 81 SerGlnAlaAlaProTyrTrpLeuGlnAlaGlnValLeuAlaHisGlnPhelysGlyLys 100
Db 774 TCTCAGCACTTACCGTACATCGAGCAGGATGATGCTCGCCGAGAGTTTCAAGCAGAAG 833
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValLeuGluProLeuValThr 120
Db 834 GCGCTGGGCTCTCGCAGACCGGCTCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAG 893
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133
Db 894 ACCAACTGGCAAAACTCGAGACCTTCTCGGCGAAGCAT 932
RESULT 8
US-08-487-231-43
; Sequence 43, Application US/08487231
; Patent No. 5919454
; GENERAL INFORMATION:
; APPLICANT: Brechot, Christian
; APPLICANT: Kremendorf, Dina
; APPLICANT: Porchon, Colette
; TITLE OF INVENTION: Nucleotide and Peptide Sequences of a
; TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
; ADDRESSER: Dunner
; STREET: 1300 I Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3315
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,231
; FILING DATE: 07-JUNE-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/965,285
; FILING DATE: 18-MAR-1993
; CLASSIFICATION: 435
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PRIOR APPLICATION DATA:  
/ APPLICATION NUMBER: FR 91 06 882  
/ FILING DATE: 06-JUN-1991  
/ ATTORNEY/AGENT INFORMATION:  
/ NAME: Meyers, Kenneth J.  
/ REGISTRATION NUMBER: 25,146  
/ REFERENCE/DOCKET NUMBER: 05286-0001-02000  
/ TELECOMMUNICATION INFORMATION:  
/ TELEPHONE: 202-408-4000  
/ TELEFAX: 202-408-4400  
/ INFORMATION FOR SEQ ID NO: 43:  
/ SEQUENCE CHARACTERISTICS:  
/ LENGTH: 943 base pairs  
/ TYPE: nucleic acid  
/ STRANDEDNESS: single  
/ TOPOLOGY: linear  
/ MOLECULE TYPE: Other  
/ DESCRIPTION: cDNA to genomic RNA  
US-08-487-231-43

Alignment Scores:  
Pred. No.: 8,566-59 Length: 943  
Score: 534.00 Matches: 99  
Percent Similarity: 83.46% Conservative: 12  
Best Local Similarity: 74.44% Mismatches: 22  
Query Match: 76.39% Indels: 0  
DB: 2 Gaps: 0  
US-09-638-693-36 (1-133) x US-08-487-231-43 (1-943)  
QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20  
Db 534 CAGAATGAATCACCCTGACGACCCAGTCCACCAATACATCATGATGTCGGCC 593  
QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyValLeuAlaLeuAla 40  
Db 594 GACCTGGAGTGTCTACGACGACCTGGGTGCTGTGGCGGCTCTGCTGTGGCC 653  
QY 41 AlaTyrCysLeuSerValGlyCysValIleValGlyHisIleGluLeuGlyGlyLys 60  
Db 654 GCGTATGCTGTCAACAGGCTGCGTGTGTATGTCAGTGGGAGGTCCTGTTCGGGAG 713  
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80  
Db 714 CCGCAATCATACCTGACAGGAAGTCTCTACGAGAGTTCGATGAGATGGAAGATGC 773  
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGlyLys 100  
Db 774 TCTCAGCACTTACCGTACATCGACGAGGATGATGTCGCGAGCAGTTCAGGAGAAG 833  
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120  
Db 834 GGCCTCGGCTCTCTGACAGCCGCTGTCGTCAGGAGGTTATGCGCCCTGCTGTCCAG 893  
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133  
Db 894 ACCAACTGGCAAACTCGAGACCTTCTGGCGGAAGCAT 932

## RESULT 9

US-09-201-912-43  
/ Sequence 43, Application US/09201912  
/ Patent No. 6210962  
/ GENERAL INFORMATION:  
/ APPLICANT: Brechot, Christian  
/ APPLICANT: Krensdorf, Dina  
/ APPLICANT: Porchon, Colette  
/ TITLE OF INVENTION: Nucleoside and Peptide Sequences of a  
/ TITLE OF INVENTION: Hepatitis C Virus Isolate, Diagnostic and Therapeutic  
/ NUMBER OF INVENTIONS: 46  
/ CORRESPONDENCE ADDRESS:  
/ ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
/ ADDRESSEE: Dunner

STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/201,912  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/965,285  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Meyers, Kenneth J.  
REGISTRATION NUMBER: 25,146  
REFERENCE/DOCKET NUMBER: 05286-0001-00000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-408-4000  
TELEFAX: 202-408-4400  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 943 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: Other  
DESCRIPTION: cDNA to genomic RNA  
US-09-201-912-43

Alignment Scores:  
Pred. No.: 8,566-59 Length: 943  
Score: 534.00 Matches: 99  
Percent Similarity: 83.46% Conservative: 12  
Best Local Similarity: 74.44% Mismatches: 22  
Query Match: 76.39% Indels: 0  
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-09-201-912-43 (1-943)

QY 1 GlnAsnGluIleCysLeuThrHisProIleThrLysTyrIleMetAlaCysMetSerAla 20  
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QY 21 AspLeuGluValThrThrSerThrTrpValLeuLeuGlyValLeuAlaLeuAla 40  
Db 594 GACCTGGAGTGTCTACGACGACCTGGGTGCTGTGGCGGCTCTGCTGTGGCC 653  
QY 41 AlaTyrCysLeuSerValGlyCysValIleValGlyHisIleGluLeuGlyGlyLys 60  
Db 654 GCGTATGCTGTCAACAGGCTGCTGTGTATGTCAGTGGGAGGTCCTGTTCGGGAG 713  
QY 61 ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGlyCys 80  
Db 714 CCGCAATCATACCTGACAGGAAGTCTCTACGAGAGTTCGATGAGATGGAAGATGC 773  
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGlyLys 100  
Db 774 TCTCAGCACTTACCGTACATCGACGAGGATGATGTCGCGAGCAGTTCAGGAGAAG 833  
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120  
Db 834 GGCCTCGGCTCTCTGACAGCCGCTGTCGTCAGGAGGTTATGCGCCCTGCTGTCCAG 893  
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133  
Db 894 ACCAACTGGCAAACTCGAGACCTTCTGGCGGAAGCAT 932

RESULT 10

US-08-444-818-67  
; Sequence 67, Application US/08444818  
; Patent No. 6150087  
; GENERAL INFORMATION:  
; APPLICANT: Chien, David Y.  
; APPLICANT: Rutter, William J.  
; TITLE OF INVENTION: NANBV Diagnostics and Vaccines  
; NUMBER OF SEQUENCES: 777  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/444,818  
; FILING DATE:  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/403,590  
; FILING DATE: 14-MAR-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Harbin, Alisa A.  
; REGISTRATION NUMBER: 33,895  
; REFERENCE/DOCKET NUMBER: 0110.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (508)359-3876  
; TELEFAX: (508)359-3885  
; INFORMATION FOR SEQ ID NO: 67:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1310 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; IMMEDIATE SOURCE:  
; CLONE: composite of clones 36, 81, and 32  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..1146  
US-08-444-818-67

Alignment Scores:  
Pred. No.: 1.35e-58 Length: 1310  
Score: 534.00 Matches: 99  
Percent Similarity: 83.46% Conservative: 12  
Best Local Similarity: 74.44% Mismatches: 22  
Query Match: 76.39% Indels: 0  
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-444-818-67 (1-1310)

QY 1 GlnAsnGluLeuCysLeuThrHisProIleThrIleMetAlaCysMetSerAla 20  
Db 232 CAGATGAATCACCCTGACGACCCAGCCATCAATACATCATGATGTCGCGCC 291  
QY 21 AspLeuGluValThrSerThrIleValLeuLeuGlyValLeuAlaLeuAla 40  
Db 292 GACCTGGAGGTGTCACAGACCTGGTGTCTGTGGCGGCTCTGCTGCTTGGCC 351  
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGly 60  
Db 352 GCGTATTCCTGTCAACAGGCTGCTGTATGTCGACGAGGTCTCTGTCCGGGAAG 411  
QY 61 ProAlaIleValProAspGluValLeuTyrGlnGlnTyrAspGluMetGluCys 80  
Db 412 CCGGCAATCATACCTGACAGGAAGTCTCTACCGAGAGTTCGATGATGGAAGATGC 471

QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPheIysGlyLys 100  
Db 472 TCTCAGCACTTACCGTATCATGAGCAAGGATGATGCTCGCGGAGCAGTTCAGGAGAAG 531  
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr 120  
Db 532 GCCCTCGCCCTCTCGACCGCGTCCGTCAGGAGAGGTATCGCCCTCTGCTCTCCAG 591  
QY 121 ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis 133  
Db 592 ACCAACTGGCAAAACTCGAGACCTTCGCGGGAAGCAT 630

RESULT 11  
US-08-444-818-19  
; Sequence 19, Application US/08444818  
; Patent No. 6150087  
; GENERAL INFORMATION:  
; APPLICANT: Chien, David Y.  
; APPLICANT: Rutter, William J.  
; TITLE OF INVENTION: NANBV Diagnostics and Vaccines  
; NUMBER OF SEQUENCES: 777  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94608-2916  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/444,818  
; FILING DATE:  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/403,590  
; FILING DATE: 14-MAR-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Harbin, Alisa A.  
; REGISTRATION NUMBER: 33,895  
; REFERENCE/DOCKET NUMBER: 0110.002  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (508)359-3876  
; TELEFAX: (508)359-3885  
; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1382 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..1380  
US-08-444-818-19

Alignment Scores:  
Pred. No.: 1.46e-58 Length: 1382  
Score: 534.00 Matches: 99  
Percent Similarity: 83.46% Conservative: 12  
Best Local Similarity: 74.44% Mismatches: 22  
Query Match: 76.39% Indels: 0  
DB: 3 Gaps: 0

US-09-638-693-36 (1-133) x US-08-444-818-19 (1-1382)

QY 1 GlnAsnGluLeuCysLeuThrHisProIleThrIleMetAlaCysMetSerAla 20  
Db 484 CAGATGAATCACCCTGACGACCCAGCCATCAATACATCATGATGTCGCGCC 543

QY 21 AspLeuGluValThrThrSerThrValLeuLeuGlyGlyValLeuAlaLeuAla 40  
DB 544 GACCTGGAGTCTGTCAGGACCTGGGTGCTGTTGGCGGCTGCTGCTGCTTGGCC 603  
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyGlyLys 60  
DB 604 GCCTATTGCTGTCAACAGCGTCCGNGTCATAGTGGCAGGCTGCTTGTCCGGGAAG 663  
QY 61 ProAlaIleValProAspIysGluValLeuTyrGlnTyrAspGluMetGluGluCys 80  
DB 664 CCGGCAATCATACCTGACAGGAAGTCTCTACCGAGTTCGATGAGATGGAAGATGC 723  
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGlyLys 100  
DB 724 TCTCAGCATTTACCTACATCGAGCAGGATGCTGCGCAGCAGTTCAGCAGGAAG 783  
QY 101 ValLeuGlyLeuGlnArgAlaThrGlnGlnAlaValIleGluProIleValThr 120  
DB 784 GGCCTCGGCTCTCTGAGACCGGCTCCCTCAGGCAGAGGTTATCGCCCTGCTGTCAG 843  
QY 121 ThrAsnTrpGlnIysLeuGluAlaPheThrHisLysHis 133  
DB 844 ACCAACTGGCAAAACTCGAGACCTTCTGGCGCAAGCAT 882

## RESULT 12

US-08-867-611-51

; Sequence 51, Application US/08867611

; Patent No. 6172189

; GENERAL INFORMATION:

; APPLICANT: DEVARE, SUSHIL G

; APPLICANT: DESAI, SURESH M

; APPLICANT: CASEY, JAMES M

; APPLICANT: DAILEY, STEPHEN H

; APPLICANT: DAWSON, GEORGE J

; APPLICANT: GUTIERREZ, ROBIN A

; APPLICANT: LESNIEWSKI, RICHARD R

; APPLICANT: STEWART, JAMES L

; APPLICANT: RUPPRECHT, KEVIN R

; TITLE OF INVENTION: HEPATITIS C ASSAY UTILIZING RECOMBINANT

; NUMBER OF SEQUENCES: 59

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ABBOTT LABORATORIES

; STREET: ONE ABBOTT PARK ROAD, CHAD377/AP6D2

; CITY: ABBOTT PARK

; STATE: IL

; COUNTRY: USA

; ZIP: 60064-3500

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/867,611

; FILING DATE: 02-JUN-1997

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/08/646,757

; FILING DATE:

; APPLICATION NUMBER: US/08/179,896

; FILING DATE:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/572,822

; FILING DATE: 24-AUG-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/614,069

; FILING DATE: 07-NOV-1990

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US/07/748,561

; FILING DATE: 21-AUG-1991

; PRIOR APPLICATION DATA:

; APPLICANT: DEVARE, SUSHIL G

; APPLICANT: DESAI, SURESH M

; APPLICANT: CASEY, JAMES M

; APPLICANT: DAILEY, STEPHEN H

; APPLICANT: DAWSON, GEORGE J

; APPLICANT: GUTIERREZ, ROBIN A

; APPLICANT: LESNIEWSKI, RICHARD R

; APPLICANT: STEWART, JAMES L

; APPLICANT: RUPPRECHT, KEVIN R

; APPLICATION NUMBER: US 07/748,565  
; FILING DATE: 21-AUG-1991  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/748,566  
; FILING DATE: 21-AUG-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: POREMSKI, PRISCILLA E  
; REGISTRATION NUMBER: 33,207  
; REFERENCE/DOCKET NUMBER: 4834.US.P6  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 708-937-6365  
; TELEFAX: 708-937-9556  
; INFORMATION FOR SEQ ID NO: 51:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1414 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; US-08-867-611-51

## Alignment Scores:

Pred. No.:	1.5e-58	Length:	1414
Score:	534.00	Matches:	99
Percent Similarity:	83.46%	Conservative:	12
Best Local Similarity:	74.44%	Mismatches:	22
Query Match:	76.39%	Indels:	0
DB:	3	Gaps:	0

US-09-638-693-36 (1-133) x US-08-867-611-51 (1-1414)

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DB 487 CAGAACGAAATCACCTGACCCCGGTACCAAAATACATCATCATGCTGCTGCT 546  
QY 21 AspLeuGluValThrThrSerThrValLeuLeuGlyValLeuAlaLeuAla 40  
DB 547 GATCTAGAGTGTGTACCTCTACCTGGGTCTGGTGGTGGTGGTGGTGGTGGT 606  
QY 41 AlaTyrCysLeuSerValGlyCysValValIleValGlyHisIleGluLeuGlyLys 60  
DB 607 GCTTACTGCTGTCGACCGGTTGCTGTTATCGTTGCTGCTGCTGCTGCTGCTG 666  
QY 61 ProAlaIleValProAspIysGluValLeuTyrGlnTyrAspGluMetGluGluCys 80  
DB 667 CCGCCATTATCCCGACCGGAGTCTGTACCGTGGTTCGACGAAATGGAAGATGC 726  
QY 81 SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlaHisGlnPhelysGlyLys 100  
DB 727 TCTCAGCACCTCGCTACATCGACAGGGTATGATGCTGGCTGAACAGTTCACACAGAAA 786  
QY 101 ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnAlaValIleGluProIleValThr 120  
DB 787 GCTCTGGGTCTGCTGACAGCGCTTCTGTCAGGCTGAAGTTATCGTCCGCTGCTTCAG 846  
QY 121 ThrAsnTrpGlnIysLeuGluAlaPheThrHisLysHis 133  
DB 847 ACCAACTGGCAAAACTCGAGACCTTCTGGCGCAAGCAT 885

## RESULT 13

US-09-690-359-51

; Sequence 51, Application US/09690359

; Patent No. 6593083

; GENERAL INFORMATION:

; APPLICANT: DEVARE, SUSHIL G

; APPLICANT: DESAI, SURESH M

; APPLICANT: CASEY, JAMES M

; APPLICANT: DAILEY, STEPHEN H

; APPLICANT: DAWSON, GEORGE J

; APPLICANT: GUTIERREZ, ROBIN A

; APPLICANT: LESNIEWSKI, RICHARD R

; APPLICANT: STEWART, JAMES L

; APPLICANT: RUPPRECHT, KEVIN R





Db	733	TCTCAGCACCTGCGTACATCGAACAGGGTATGATGCTGCTGAACAGTTCAACAGAAA	792
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Db	793	GCTCTGGGTCTGCTGCAGACCGCTTCTCGTCAAGCTGAAGTTATCGTCCGGGTGTTTCAG	852
QY	121	ThrAsnTrpGlnLysLeuGluAlaPheTrpHisLysHis	133
Db	853	ACCACTGGCAGAACTCGAGACCTTCTGGGCTAAACAC	891

Search completed: February 27, 2004, 21:51:48  
 Job time : 74 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 27, 2004, 21:49:23 ; Search time 254 Seconds

(without alignments)  
1888.949 Million cell updates/sec

Title: US-09-638-693-36

Perfect score: 699

Sequence: 1 QNEICLTHPIKYMCMISA.....VIEPIVITNQKLEAFWKH 133

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 2353733 seqs, 1803733377 residues

Total number of hits satisfying chosen parameters: 4707466

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-THR MIN=0 -ALIGN=15 -MODB=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09638693\_@C@N\_1\_164 @runat\_24022004\_135621\_6525  
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Database : Published Applications NA.\*

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13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
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18: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Query Score	Match	Length	ID	Description
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2	599	100.0	401	10	US-09-878-281-35	Sequence 35, Appl
3	691	98.9	401	10	US-09-899-046-37	Sequence 37, Appl
4	691	98.9	401	10	US-09-899-046-39	Sequence 39, Appl
5	691	98.9	401	10	US-09-878-281-37	Sequence 37, Appl
6	691	98.9	401	10	US-09-878-281-39	Sequence 39, Appl
7	691	98.9	629	10	US-09-899-046-222	Sequence 222, App
8	691	98.9	629	10	US-09-878-281-222	Sequence 222, App
9	672	96.1	401	10	US-09-899-046-31	Sequence 31, Appl
10	672	96.1	401	10	US-09-899-046-33	Sequence 33, Appl
11	672	96.1	401	10	US-09-878-281-31	Sequence 31, Appl
12	672	96.1	401	10	US-09-878-281-33	Sequence 33, Appl
13	572	81.8	367	14	US-10-386-864-16	Sequence 16, Appl
14	539	77.1	9646	9	US-09-742-659-3	Sequence 3, Appl
15	539	77.1	9646	9	US-09-238-076-1	Sequence 1, Appl
16	539	77.1	9646	10	US-09-995-937-1	Sequence 1, Appl
17	539	77.1	9646	10	US-09-917-563-1	Sequence 1, Appl
18	539	77.1	12980	9	US-09-238-076-5	Sequence 5, Appl
19	539	77.1	12980	10	US-09-995-937-5	Sequence 5, Appl
20	539	77.1	12980	10	US-09-917-563-5	Sequence 5, Appl
21	534	76.4	9379	9	US-09-916-359-1	Sequence 1, Appl
22	534	76.4	9416	9	US-09-238-076-19	Sequence 19, Appl
23	534	76.4	9416	9	US-09-929-955-13	Sequence 13, Appl
24	534	76.4	9416	10	US-09-995-937-19	Sequence 19, Appl
25	534	76.4	9416	10	US-09-917-563-19	Sequence 19, Appl
26	534	76.4	9416	13	US-10-104-566-13	Sequence 13, Appl
27	534	76.4	10803	14	US-09-747-419-17	Sequence 17, Appl
28	534	76.4	10803	14	US-10-259-275-17	Sequence 17, Appl
29	527	75.4	9365	10	US-09-827-688-7	Sequence 7, Appl
30	493	70.5	9413	10	US-09-827-688-6	Sequence 6, Appl
31	492	70.4	13910	10	US-09-919-901-1	Sequence 1, Appl
32	492	70.4	13910	10	US-09-919-901-8	Sequence 8, Appl
33	492	70.4	13910	10	US-09-919-901-15	Sequence 15, Appl
34	492	70.4	13910	14	US-10-191-966-1	Sequence 1, Appl
35	492	70.4	13910	14	US-10-191-966-8	Sequence 8, Appl
36	492	70.4	13910	14	US-10-191-966-15	Sequence 15, Appl
37	490	70.1	6189	14	US-10-259-275-41	Sequence 41, Appl
38	490	70.1	7989	15	US-10-434-842-16	Sequence 16, Appl
39	490	70.1	7992	13	US-10-005-469-1	Sequence 1, Appl
40	490	70.1	7992	13	US-10-005-469-2	Sequence 2, Appl
41	490	70.1	7992	13	US-10-005-469-6	Sequence 6, Appl
42	490	70.1	7992	15	US-10-434-842-1	Sequence 1, Appl
43	490	70.1	7992	15	US-10-434-842-2	Sequence 2, Appl
44	490	70.1	7992	15	US-10-434-842-6	Sequence 6, Appl
45	490	70.1	7992	15	US-10-434-842-15	Sequence 15, Appl

#### ALIGNMENTS

RESULT 1  
US-09-899-046-35  
; Sequence 35, Application US/09899046  
; Publication No. US20030008274A1  
; GENERAL INFORMATION:

APPLICANT:  
TITLE OF INVENTION: New sequences of hepatitis C virus  
TITLE OF INVENTION: Genotypes for diagnosis, prophylaxis and therapy.  
NUMBER OF SEQUENCES: 270  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/899,046  
FILING DATE:  
PRIORITY APPLICATION DATA:  
PRIORITY APPLICATION NUMBER: 08/362,455

FILING DATE:  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 401 base pairs  
TYPE: nucleic acid





## APPLICATION



APPLICANT: RICE, CHARLES et al.  
TITLE OF INVENTION: FUNCTIONAL DNA CLONE FOR HEPATITIS C  
TITLE OF INVENTION: VIRUS (HCV) AND USES THEREOF  
NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HOWELL & HAFERKAMP, L.C.  
STREET: 7733 FORSYTH BLVD., SUITE 1400  
CITY: ST. LOUIS  
STATE: MO  
COUNTRY: USA  
ZIP: 63105  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION NUMBER: US/09/238,076  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 09/034,756  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: HOLLAND, DONALD R.  
REGISTRATION NUMBER: 35,197  
REFERENCE/DOCKET NUMBER: 6029-4831  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 314-727-5188  
TELEFAX: 314-727-6092  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9646 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-09-238-076-1

Alignment Scores:	
Pred. No.:	2.26e-67
Score:	539.00
Percent Similarity:	83.46%
Best Local Similarity:	75.94%
Query Match:	77.11%
DB:	9
Length:	9646
Matches:	101
Conservative:	10
Mismatches:	22
Indels:	0
Gaps:	0

US-09-638-693-36 (1-133) x US-09-238-076-1 (1-9646)

QY		1	GlnAsnGluIleCysLeuThrHisProIleThrlLysTyrIleMetAlaCysMetSerAla	20
			:::	
Db		5235	CAGAATCAAGTCACCTCGACGCCAACCCAAATCACCAAATATCATCATGCATGTGGCC	5294
QY		21	AspLeuGluValThrThrSerThrTrpValLeuLeuClyGlyValLeuAlaLeuAla	40
			:::	
Db		5295	GACCTGGAGGTGCTCAGGACACTGGTGCTCTGGCGCGCTCTGGCTGTCTGGCC	5354
QY		41	AlaTyrCysLeuSerValGlyCysValValIleValIdlyHisIleGluLeuGlyGlyLys	60
			:::	
Db		5355	GCGTATTGCTGTCAACAGGCTCGTGTTTCATAGTGGCAGGATGTCTGTGTCGGGAAG	5414
QY		61	ProAlaIleValProAspLysGluValLeuTyrGlnGlnTyrAspGluMetGluGluCys	80
			:::	
Db		5415	COGGCAATTATACCTCAGCAGGAGTTCTCTACGAGAGTTCGATGAGATGGAGAGTGC	5474
QY		81	SerGlnAlaAlaProTyrIleGluGlnAlaGlnValIleAlahisGlnPheLysGlyLys	100
			:::	
Db		5475	TCTCAGCACTTACCGTACATCGAGCAGGAGTATGCTCGCTGAGCAGGATTCAGCAGAAG	5534
QY		101	ValLeuGlyLeuLeuGlnArgAlaThrGlnGlnGlnAlaValIleGluProIleValThr	120
			:::	